



REPORT OF THE
Hydro-Electric Power
Commission
OF ONTARIO
1929

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MR. WILLS MACLACHLAN

Wills MacLachlan



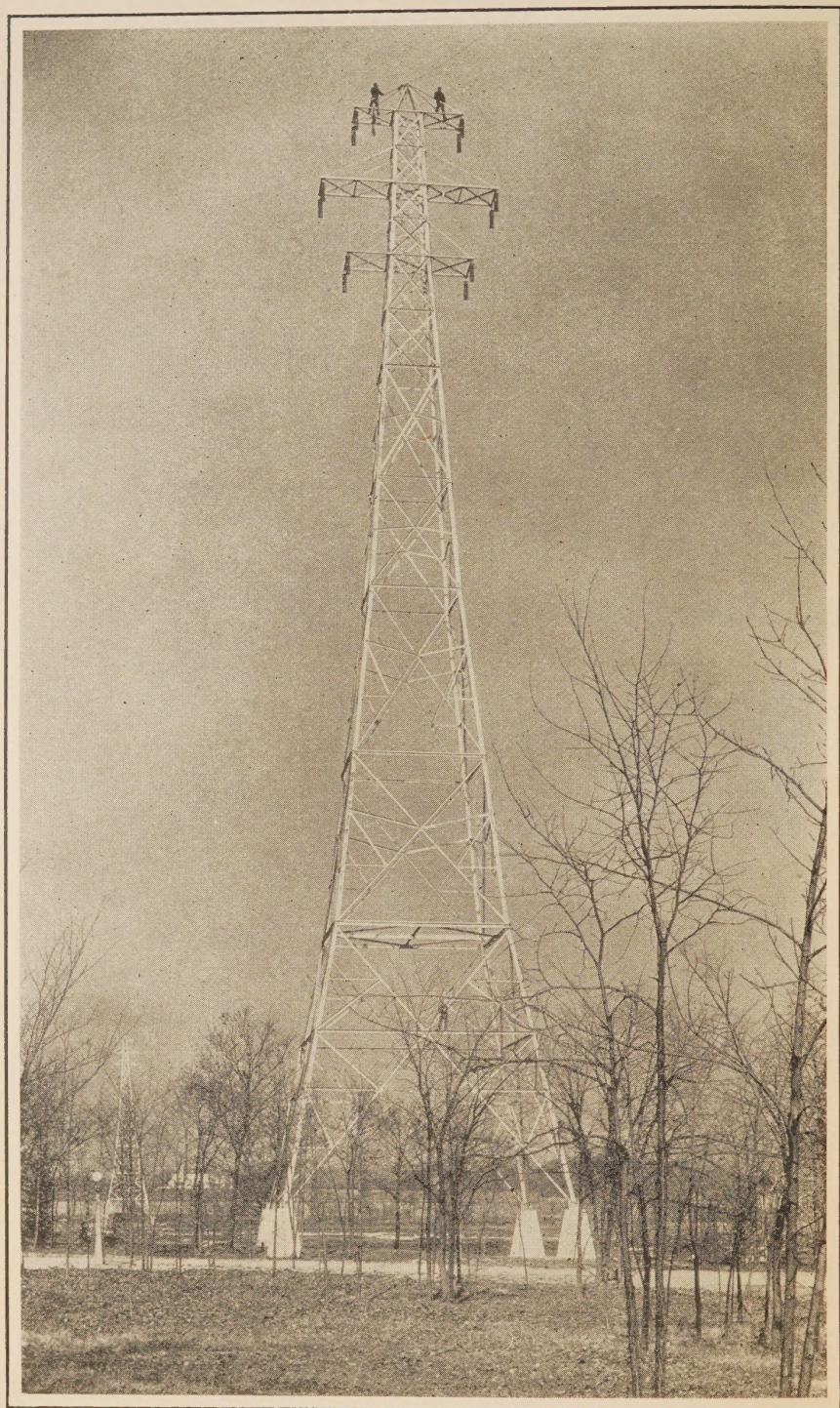
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EASTERN ONTARIO HIGH-VOLTAGE TRANSMISSION LINES
Ottawa River crossing towers nearing completion. Note figures of men

Gov. Doc. Ontario Hydro-Electric Power
Ont. " Commission

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(Twenty-Second) Annual Report

OF THE

HYDRO-ELECTRIC POWER
COMMISSION

OF THE

PROVINCE OF ONTARIO

FOR THE YEAR ENDED OCTOBER 31st

1929

PRINTED BY ORDER OF
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HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

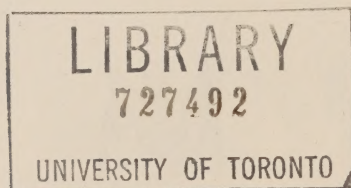
CHARLES A. MAGRATH.....*Chairman*

HON. J. R. COOKE, M.L.A.....*Commissioner*

C. ALFRED MAGUIRE.....*Commissioner*

W. W. POPE.....*Secretary*

F. A. GABY, B.A.Sc., D.Sc.....*Chief Engineer*



To His Honour THE HONOURABLE WILLIAM D. ROSS,

Lieutenant-Governor of Ontario.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present to your Honour the Twenty-second Annual Report of the Hydro-Electric Power Commission of Ontario for the fiscal year ending October 31, 1929.

This Report covers all of the Commission's activities and also embodies the financial statements for the calendar year 1929, of the municipal electric utilities operating in conjunction with the various systems of the Commission and supplying electrical service to the citizens of the Province.

Dealing, as it does, with a multiplicity of activities relating to several electrical systems obtaining power from thirty-two hydro-electrical plants operated by the Commission, supplemented by power purchased from other sources, and recording financial and other data relating to the individual local municipal electric utilities, the Annual Report presents a large amount of statistical information, much of which must, of necessity, be of a summary character.

The financial statements, the statistical data and the general information given, however, are so arranged and presented as to convey a comprehensive outlook on the features of the Commission's operations. Not only does the Report record the progress made during the past year, but it gives, in addition, certain cumulative results for the various periods during which operation has been maintained in the respective municipalities.

The constructional activities of the Commission during 1929 were featured by a number of outstanding developments and expansions. In the Niagara system the tenth generating unit was ordered for Queenston generating station and the final extension to the power house to accommodate this unit is well under way. The third and fourth banks of transformers and synchronous condensers were ordered for Toronto-Leaside transformer station. The 220,000-volt transmission line conveying power from the Gatineau river plants has given good service and the westerly half of the second circuit, constructed on separate towers, has been completed and placed in operation. A two-circuit 110,000-volt steel-tower line was constructed and placed in service from a point near Queenston to St. Thomas. This will reinforce the power supply and improve voltage conditions in the western section of the Niagara system. In the Georgian Bay system, the generating station at Trethewey Falls was placed in operation and two small generating stations at Bala in the district of Muskoka were purchased and improved.

In the newly-formed Eastern Ontario system, which is a consolidation of the former Central Ontario and Trent, St. Lawrence and Rideau systems, additions were made to the high-voltage network which serves the dual purpose of linking together the three former systems and of connecting the several

COMBINED REVENUE

As usual the Commission is able to report that the revenue obtained from the consumers has been more than sufficient to meet the full cost of generating and transmitting the electrical energy as well as to provide for all operating expenses and fixed charges of the municipal utility equipments.

The following statement shows the combined revenue of the Hydro-Electric Power Commission and the municipal electric utilities:

Revenue of the Hydro-Electric Power Commission:

From the municipal electric utilities, rural power districts, hydro-electric railways and other power customers—	
Niagara system.....	\$20,231,830.28
Georgian Bay system.....	799,343.17
Eastern Ontario system.....	2,561,774.89
Ottawa system.....	243,777.52
Thunder Bay system.....	1,454,080.66
Bonnechere storage.....	4,144.31
	<u>\$25,294,950.83</u>

From rural consumers:

Niagara rural power districts.....	\$1,432,978.27
Niagara rural lines.....	3,889.67
Georgian Bay rural power districts...	74,225.78
Georgian Bay rural lines.....	288.75
Eastern Ontario rural power districts..	150,323.11
Ottawa rural power districts.....	26,928.28
	<u>1,688,633.86</u>

\$26,983,584.69

From hydro-electric railways:

Sandwich, Windsor & Amherstburg Ry.	\$1,241,041.79
Guelph Radial Railway.....	117,947.81
	<u>1,358,989.60</u>

Total revenue of the Commission..... \$28,342,574.29

Revenue collected by the municipal electric utilities..... 29,206,684.53

Aggregate revenue of the Commission and the municipal electric utilities..... \$57,549,258.82

*Deduct:

Revenue from power supplied to municipal electric utilities.....	\$17,470,930.93
Hydro-electric railways.....	108,703.06
	<u>17,579,633.99</u>

Combined revenue..... \$39,969,624.83

*NOTE: This deduction is made due to the fact that the revenue of the municipal electric utilities is the source from which the Commission is reimbursed for the cost of power supplied to such utilities.

REVENUE OF COMMISSION

The Commission collected from the municipal utilities and other customers, for power supplied, a total sum of \$26,983,584.69. This sum was appropriated to meet all the necessary fixed charges and to provide for the expenses of operation and administration. After meeting all charges there was left a net surplus of \$1,575,225.81.

The following statement summarizes the Commission's collections from municipal electric utilities and other power customers for the year and shows how the collections have been appropriated:

Revenue from municipal electric utilities and other power customers.....	\$26,983,584.69
Appropriated as follows:	
Operation, maintenance, administration, interest and other current expenses.....	\$18,048,129.36
Reserves for sinking fund, renewal of plant and equipment and contingencies and obsolescence.....	7,360,229.52
	<u>25,408,358.88</u>
Net surplus, after providing for all expenses and necessary fixed charges, credited to municipalities and shown in their accounts.....	<u>\$1,575,225.81</u>

RURAL ELECTRICAL SERVICE

During the past few years very substantial progress has been made in Ontario in the field of rural electrification. Practically all rural electrical service is now given through rural power districts which are operated directly by the Commission. There is now more than \$9,300,000 invested in the rural power district systems established by the Commission. Towards this rural work the Ontario Government, pursuant to its policy of promoting the basic industry of agriculture, has, in the form of grants-in-aid, contributed 50 per cent of the costs of transmission lines and equipment, or about \$4,600,000. About 4,835 miles of transmission lines have been constructed to date, of which 1,044 miles were constructed during the past year, a mileage which exceeds that constructed in any former year. There are now more than 37,000 customers supplied in the rural power districts.

RURAL POWER DISTRICTS—OPERATIONS FOR YEAR 1929

	Niagara system	Georgian Bay system	Eastern Ontario system	Ottawa system	Totals
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Cost of power as provided to be paid under Power Commission Act.....	500,499.08	27,535.78	56,970.68	7,316.27	592,321.81
Cost of operation, maintenance and administration.....	367,223.50	15,075.73	42,239.93	7,523.21	432,062.37
Interest.....	156,259.41	9,601.45	15,943.78	3,988.34	185,792.98
Renewals.....	137,071.36	7,566.59	13,205.79	3,114.38	160,958.12
Obsolescence and contingencies.....	68,535.68	7,566.59	4,247.96	1,557.19	81,907.42
Sinking fund.....	36,330.90	2,221.80	3,470.08	862.62	42,885.40
Total expenses.....	1,265,919.93	69,567.94	136,078.22	24,362.01	1,495,928.10
Revenue from customers.....	1,432,978.27	74,225.78	150,323.11	26,928.28	1,684,455.44
Surplus.....	167,058.34	4,657.84	14,244.89	2,566.27	188,527.34
Net surplus.....					188,527.34

MUNICIPAL ELECTRIC UTILITIES

The following is a summation of the year's operation of the local electric utilities conducted by municipalities receiving power under cost contracts with the Commission:

Total revenue collected by the municipal electric utilities.....	\$29,206,684.53
Cost of power.....	\$16,379,162.88
Operation, maintenance and administration.....	5,116,401.73
Debenture charges and interest.....	3,839,897.13
Depreciation.....	1,469,846.83
Total.....	26,805,308.57
Surplus for the year, includes surplus from H.E.P.C.....	\$2,401,375.96

RESERVES OF COMMISSION AND MUNICIPAL ELECTRIC UTILITIES

The total reserves of the Commission and the municipal electric utilities for sinking fund, renewals, contingencies and insurance purposes amount to \$89,940,323.61, made up as follows:

Niagara system.....	\$35,940,823.40
Georgian Bay system.....	1,655,366.18
Eastern Ontario system.....	3,447,043.82
Ottawa system.....	24,734.17
Thunder Bay system.....	1,566,520.54
Bonnechere storage.....	16,450.97
Service buildings and equipment.....	542,754.55
Hydro-electric railways.....	133,298.05
Insurance, workmen's compensation and staff pension insurance.....	2,554,758.70
Total reserves of the commission.....	\$45,881,750.38
Total reserves of municipal electric utilities.....	44,058,573.23
Total Commission and municipal reserves.....	\$89,940,323.61

The consolidated balance sheet of the municipal electric utilities, on page 255, shows a total cash balance of \$858,733.68, and bonds and other investments of \$2,001,088.81. The total surplus in the municipal books now amounts to \$30,710,047.48, in addition to a depreciation reserve and sundry other reserves aggregating \$13,348,525.75.

* * *

The following is a brief summary of the principal operations relating to the several systems of the Commission:

NIAGARA SYSTEM

The Niagara system embraces all the territory lying between Niagara Falls, Hamilton, and Toronto on the east, and Windsor, Sarnia, and Goderich on the west, served with electrical energy generated at plants on the Niagara river, supplemented with purchased power transmitted from the Gatineau river.

There has been a steady increase in the number of consumers in this district and also in the load supplied by the Commission to the municipalities. Because of this rapidly increasing load it was necessary to arrange with the Gatineau

Power Company for power in excess of that which was to be delivered in 1929, as provided for in this Company's agreement with the Commission. Power supplied to the Commission by the Gatineau Power Company is received by the Commission at the inter-provincial boundary on the Ottawa river and is transmitted over a 220,000-volt, steel-tower transmission line to Leaside. The construction of the western half of a duplicate circuit, on separate steel towers, of this transmission line was completed during the year and put into operation to assist in carrying the heavy winter load.

A 110,000-volt, steel-tower transmission line from Niagara Falls to St. Thomas, which was planned during the previous year was completed and put into service to assist in taking care of the increasing demands in the western part of the area served by the Niagara system.

The installation of a tenth unit in the Queenston generating plant, which was arranged for in the previous year, is well under way and the unit will be available to assist in taking care of the winter load for 1930-31.

The Commission in this system has a total capital investment of \$168,004,159.13 and accumulated reserves for renewals, sinking fund and contingencies aggregate \$35,940,823.40. In the rural power districts of this system, which are operated directly by the Commission, the revenue for the year from customers was \$1,432,978.27, and the total cost of supplying the service was \$1,265,919.93, leaving a balance of \$167,058.34, which is placed to the credit of the districts in this system. The greater part of this surplus is returnable to the users in the form of reduced rates.

With respect to the electric utilities of the municipalities comprising this system, the actual cost of power during the year was \$1,069,149.68 less than the amounts of the interim bills. The municipal electric utilities operated with a net surplus of \$1,756,030.55, after providing \$1,250,559.13 for depreciation and \$1,511,788.75 for the retirement of instalment and sinking fund debentures. Seventeen municipalities had deficits during the year, aggregating \$15,328.77. The total revenue of the municipal electric utilities in this system was \$24,175,876.01, an increase of \$2,000,747.82.

GEORGIAN BAY SYSTEM

The Georgian Bay system serves that portion of the Province lying to the north of the area served by the Niagara system and west of the area served by the Eastern Ontario system. It comprises the territory adjacent to lake Huron and Georgian bay from Kincardine on the west to Uxbridge and Port Perry on the east, and north as far as Huntsville in the district of Muskoka.

Electrical energy is obtained from six hydro-electrical developments and from a frequency-changing station through which a block of power is obtained from the Niagara system. Surplus power is also obtained from a development owned by the town of Orillia. The combined capacity of these various sources of power all of which are tied together by a network of transmission lines approximates 25,000 horsepower. One of these developments, viz: that at Trethewey Falls on the south branch of the Muskoka river with a turbine capacity of 2,300 horsepower was completed and placed in operation during the year. Arrangements were also completed for constructing an additional frequency changing station at Hanover, power being obtained for this station over a 110,000-volt

transmission line between Kitchener and Hanover, part of which was erected during the year. It is expected that this station and line will be placed in operation during the summer of 1930, which will make available approximately 5,000 horsepower additional for the Georgian Bay system. Investigations and surveys concerning additional developments on the Musquash river at Ragged rapids were also carried on during the year in order to provide for additional plant capacity for the Georgian Bay system when required.

The results of the past year's operation were substantially better even than in 1928, which, up to that time, was the most successful year in the history of the system. The total capital invested by the Commission in this system is \$6,310,034.95, and the accumulated reserves, inclusive of renewals, sinking fund, and contingencies aggregate \$1,655,366.18. The revenue for the year from the rural power districts on this system which are directly operated by the Commission, amounted to \$74,225.78, whereas the total cost of service was \$69,567.94, thus leaving a balance of \$4,657.84 to be placed to the credit of the system.

The results obtained during the year from the operation of the electrical utilities in the various municipalities have been most satisfactory. The total cost of power during the year was \$77,630.81 less than the total amount collected at the interim rates. The total net surplus for the year from the various municipal electrical utilities amounted to \$104,025.71, after providing \$51,784.00 for depreciation, and \$53,389.04 for the retirement of installment and sinking fund debentures. Five small municipalities operated with an aggregate loss of \$2,424.78, whereas the total combined surplus of the other municipalities comprising this system was \$106,450.49, and the total revenue collected was \$1,044,636.48.

EASTERN ONTARIO SYSTEM*

This system, as at present constituted, combines the three systems hitherto known as the Central Ontario and Trent, the St. Lawrence and the Rideau systems. Except for the relatively small areas served by the Ottawa system, and the newly acquired Madawaska system, referred to later, the Eastern Ontario system serves the entire eastern part of the Province, that is, the territory lying to the east of the county of Ontario and the district of Muskoka, and bounded on the north, east and south by the Ottawa and the St. Lawrence rivers and lake Ontario.

The combining of these systems was necessitated in order to obtain an ample supply of additional power for the present and future needs of the eastern part of the Province. The Eastern Ontario system shares with the Ottawa system the mutual benefits to be derived by the purchase, from a common source, of power in bulk for future expansion. Under a contract with the Gatineau Power Company the Commission obtains a supply of 60-cycle power up to 100,000 horsepower from large developments on the Gatineau river. The various divisions of the Eastern Ontario system are now linked together by high-voltage transmission lines. The power is received by the Commission near Ottawa and from this city a 110,000-volt transmission line extends to the town of Smiths Falls of the Rideau district. From there one line branches off south to Brockville

*NOTE.—The formation of the Eastern Ontario system was not consummated until the earlier sections of this Report were in press. Consequently in Sections I to VI of this Report the former names of the eastern systems are used.

connecting with the St. Lawrence division at its westerly end; and another line branches off south-west to Kingston, connecting with the Central Ontario division at its easterly end. In addition to the benefits derived by the purchase of power in bulk from a common source, and those resulting from the physical interconnection of transmission systems, the consolidation of the accounting and operating activities will also effect economies to the partner municipalities.

The Commission in this system has a total capital investment of \$18,045,388.36 and accumulated reserves for renewals, sinking fund and contingencies aggregate \$3,447,043.82. In the rural power districts of this system, which are operated directly by the Commission, the revenue for the year from customers was \$150,323.11, and the total cost of supplying the service was \$136,078.22, leaving a balance of \$14,244.89, which is placed to the credit of the districts in this system. The greater part of this surplus is returnable to the users in the form of reduced rates.

With respect to the electric utilities of the municipalities comprising this system, the actual cost of power during the year was \$68,263.05 less than the amount of the interim bills. The municipal electric utilities operated with a net surplus of \$262,046.96 after providing \$72,774.21 for depreciation and \$79,272.11 for the retirement of installment and sinking fund debentures. Three municipalities had deficits during the year, aggregating \$1,612.16. The total revenue of the municipal electric utilities in this system was \$1,888,943.06.

MADAWASKA SYSTEM

The Madawaska system is the latest acquisition of the Commission to serve eastern Ontario. The properties comprising this system were formerly owned and controlled by Mr. M. J. O'Brien and were acquired by the Commission in June, 1929. The properties include the Galetta Electric Light Company, which serves the town of Arnprior and several adjacent villages and hamlets from a development on the Mississippi river at Galetta, capacity 1,400 horsepower; and the Calabogie Power Company with a plant at Calabogie on the Madawaska river, capacity 6,000 horsepower, which serves the municipality of Renfrew and is interconnected with the Galetta plant. In the town of Renfrew, several industries are supplied direct with power, and service is also given to some small rural communities in the vicinity of Renfrew and at Calabogie.

For the present the properties are being operated by the Commission in a similar manner to that followed by Mr. O'Brien. The undeveloped water power sites on the Madawaska river have an aggregate potential magnitude of 150,000 horsepower. The properties purchased included four of these sites, with a estimated capacity of about 85,000 horsepower.

OTTAWA SYSTEM

The Ottawa system serves the city of Ottawa, the village of Richmond, and the Nepean rural power district. Both the Nepean rural power district and Richmond obtain their supply of power through the distribution system of the city of Ottawa, Richmond obtaining its power over the network of lines supplying the Nepean rural power district.

For many years Ottawa has been receiving power through the Hydro-Electric Power Commission from the plant of the Ottawa and Hull Power Company. This company, now a subsidiary of the Gatineau Power Company, is under contract to supply the Commission with 20,000 horsepower. Hitherto this power has been developed in the company's plant on the Quebec side of the Ottawa river, opposite Ottawa. The power supply of 20,000 horsepower is now all in use and additional power is being obtained by virtue of the contract made with the Gatineau Power Company for bulk supplies for the general use of eastern Ontario. Under special arrangement, the Gatineau Power Company, throughout the year, has delivered any power required in excess of the 20,000 horsepower over the same lines as are used to supply this power. This arrangement provides for the additional needs of the system pending the completion of the 110,000-volt transformer station in the vicinity of the western part of the city of Ottawa, where additional power supply will be available from the Gatineau Power Company to meet future requirements.

THUNDER BAY SYSTEM

The Thunder Bay system serves the cities of Port Arthur and Fort William and the village of Nipigon situated in the district of Thunder Bay at the head of the Great lakes. Power is obtained from a hydro-electric development located at Cameron Falls on the Nipigon river, about seventy miles east of Port Arthur.

A second development on the Nipigon river, at camp Alexander, has been undertaken by the Commission to supply the growing demands for electrical energy in the Thunder Bay district. Alexander development, the capacity of which will be 54,000 horsepower, is situated a short distance below the Cameron Falls development and will probably be completed and placed in operation during the fall of 1930.

Power in this district, apart from that utilized for ordinary domestic, commercial and municipal purposes, is supplied chiefly to pulp and paper mills and terminal grain elevators at Port Arthur and Fort William. The demand for power last year on this system was greater than during any previous year, a peak of 77,000 horsepower having been established during the month of September. Had the grain trade been normal, and had plant capacity been available, the peak load, in all probability, might have reached the neighbourhood of 85,000 horsepower. The actual increase in this peak over that established the previous year was approximately 20,000 horsepower. The average power sold to Port Arthur during the year increased by 7,381 horsepower over the previous year. One of the large paper companies served increased its load by approximately 14,000 horsepower.

The Commission has, in the Thunder Bay system, a total investment of \$15,325,411.00, and accumulated reserves for renewals, contingencies, and sinking fund aggregating \$1,566,520.54. The total revenue of the municipal electrical utilities in the system was \$1,484,139.12, being \$127,545.33 greater than in 1928, and the total revenue collected by the Commission for power sold to the municipalities and private companies was \$1,454,080.66, or \$309,049.11 greater than for total collections from customers during 1928. The three municipalities served by this system operated with a net surplus of \$210,338.06 after providing depreciation to the extent of \$38,671.00 and \$22,901.53 for the retirement of debentures; all three showing substantial surpluses.

NIPISSING SYSTEM

This system serves the district adjacent to and inclusive of the city of North Bay, the town of Powassan, and the villages of Callander and Nipissing adjacent to the eastern end of lake Nipissing. Three hydro-electric developments now serve this system, all of which are situated at power sites on the South river; namely, at Nipissing, Bingham Chute, and Elliott Chute. The last named plant, with a turbine capacity of 1,800 horsepower, was completed and placed in operation during the year.

WAHNAPIITAE DISTRICT

The service given by the Wahnapiitae Power Company, the majority stock of which was acquired by the Commission during the year, has been continued with the same operating staff. Certain improvements have been made to the hydraulic structures; and service to Sudbury and other power customers has been continued as usual. Investigations have been carried on with a view to obtaining, either by development or purchase, a large block of power for use by mining properties adjacent to Sudbury.

PATRICIA DISTRICT

The hydro-electric development at Ear Falls at the foot of Lac Seul on the English river was completed during the year. This will supply power to mining developments in the Red Lake area. The Commission also co-operated with the Provincial authorities in the design of a conservation dam at Lac Seul, and of some marine railways to facilitate transportation between Lac Seul and Red Lake.

THE ANNUAL REPORT

The Table of Contents, pages xxi and xxii, conveys a good understanding of the scope of the matters dealt with in the Report, to which there is also a comprehensive Index. To those not conversant with the Commission's Reports the following notes will be useful.

In Section II, pages 5 to 51, dealing with the Operation of the Systems, are a number of interesting diagrams showing, graphically, the increase in the loads on the various systems. Tables are also presented showing the amounts of power taken by the various municipalities during the past three years.

The rural distribution work of the Commission has proved of widespread interest and special reference to this is made in Section III, on pages 61 to 75. The power distributed to rural districts is, and possibly must always be, but a relatively small proportion of the power distributed by the Commission. The supplying of electrical service in rural areas, and especially on the farm, has, however, been of great economic benefit to Ontario. The Provincial Government grants-in-aid to this work have been of value to agricultural activities, and have assisted the Commission to extend transmission lines to many areas.

In Sections IV, V and VI will be found information respecting progress of work on new power developments and on transmission system extensions, together with photographic illustrations.

About three-fifths of the Report is devoted to statistical, financial data which are presented in two Sections, IX and X.

Section IX presents in summary form the financial statements relating to the operations of the Commission chiefly in the generation, transformation and transmission of electrical energy to the co-operating municipalities. It is introduced by an important explanatory statement which appears on pages 125 to 129, to which special reference should be made.

Section X presents in summary form the financial statements relating to the operations of the municipalities in the localized distribution of electrical energy to consumers. It also contains details of the costs of electrical energy to consumers in the various municipalities and tabular statements of the rates in force which have produced these costs. An explanation of the various tables and statements is given at the commencement of this Section on pages 249-251; and a special introduction to Statement "D," which relates to the cost of electrical service in Ontario, together with a diagram, appears on pages 360 to 363.

In its Annual Reports the Commission aims to present a comprehensive statement respecting the activities of the whole undertaking under its administration. Explanatory statements descriptive of the operations of the Commission in various branches of its work are suitably placed throughout the Report in order that the citizens of the Province may be kept fully informed upon the working-out of the Commission's policies.

* * *

The various statements in this report bear testimony to another year of fine progress. During the year, a large block of electrical power was contracted for from the Beauharnois Power Corporation. The policy of the Commission is to ensure ample supplies of power to meet the growing needs of the co-operating municipalities.

In the development of this Province with its vast natural resources there seems to be but one sound policy, and that is to have available ample power supplies. If there is one obligation particularly resting upon a publicly-owned organization in hydro-electric development, it is to keep well ahead of the demand. That problem was quite serious a few years ago, and for a while threatened the Commission with some embarrassment. At that time the eastern part of the Province was quite exercised over the question of power supplies. That concern has since been removed, and the Commission has reason to believe that Ontario's Hydro municipalities are fully satisfied with the policy that has been pursued in order to take care of their electrical requirements.

The Commission has purchased power properties during the past twelve months on the Madawaska river, which enters the Ottawa river near Arnprior. Under full development, the Madawaska has a potentiality of about 150,000 horsepower. Similarly, a power property in the Sudbury district, known as the Wahnapiatae Power Company was acquired.

Beyond a few relatively small scattered properties, the only other sources of hydro-electric supply within the more closely settled portion of the Province, are in the waters of the Ottawa, St. Lawrence and Niagara rivers; all of which are either inter-provincial or international, and in their development call for co-operation by interests outside of this Province. Involved in the international waters there are in Canada federal and provincial issues, calling for settlement.

Moreover, there is a corresponding situation on the United States side of the St. Lawrence river where the federal government of the United States and the authorities of the State of New York do not seem yet to have reached agreement with regard to their respective claims.

During the past year, the Commission has been negotiating with Quebec interests for developments at both the Carillon and Chats power sites on the Ottawa river, and it is hoped that, at an early date, arrangements for proceeding with the work at the Chats site will be brought to a satisfactory conclusion.

The various reports herein presented clearly show that the Commission, in addition to taking care of its sinking fund requirements, is working into a strong position through the setting aside of very substantial reserves.

It is a pleasure to me again to acknowledge the splendid services always given by all employees. The Commission has a fine technical organization, and it is so regarded by those who come into contact with its staff.

To those entrusted by the various municipalities with the direction of their local "Hydro" utilities, I wish to express the sincere thanks of my colleagues and myself for their whole-hearted co-operation, and to the Press of the Province I also wish to say that we are very grateful for its service and support.

Respectfully submitted,

CHARLES A. MAGRATH,

Chairman.

TORONTO, ONTARIO, March 31st, 1930.

CHARLES A. MAGRATH, ESQ.,

Chairman, Hydro-Electric Power Commission of Ontario,

Toronto, Ontario.

SIR,—I have the honour to transmit herewith the Twenty-second Annual Report of the Hydro-Electric Power Commission of Ontario for the fiscal year ended October 31st, 1929.

I have the honour to be,

Sir,

Your obedient servant,

W. W. POPE,

Secretary.

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TWENTY-SECOND ANNUAL REPORT OF THE Hydro-Electric Power Commission of Ontario

SECTION I

LEGAL

At the 1929 session of the Legislative Assembly of the Province of Ontario, four Acts relating to the work of The Hydro-Electric Power Commission of Ontario were passed. These are reproduced in full in Appendix I to this report. The short titles to the said Acts are as follows:

The Power Commission Act, 1929, Chapter 20.

The Power Commission Act, 1929 (No. 2), Chapter 21.

The Power Commission and Companies Transfer Act, 1929, Chapter 22.

The Hydro-Electric Railway Act, 1929, Chapter 55.

The agreements between The Hydro-Electric Power Commission of Ontario and the municipalities and corporations mentioned in the list hereunder given were approved by Order-in-Council dated the 14th day of May, 1929.

CITIES

Kingston.....	Nov. 1, 1927.
Owen Sound.....	July 24, 1928.
Sarnia.....	May 1, 1926.

TOWNS

Lindsay.....	Nov. 15, 1928.
Lindsay (Supplemental).....	Nov. 15, 1928.

VILLAGES

Arkona.....	Dec. 15, 1926.
Cottam.....	June 21, 1926.
Cottam.....	Oct. 13, 1926.
Waterdown and Township of	
E. Flamboro.....	Aug. 14, 1926.
Bridgeport.....	Jan. 28, 1928.

TOWNSHIPS

Adelaide.....	Aug. 27, 1928.
Alnwick.....	June 30, 1928.
Alnwick.....	Dec. 21, 1928.
Amabel.....	April 12, 1928.
Amaranth.....	Feb. 7, 1927.

TOWNSHIPS—Continued

Arran.....	Oct. 18, 1927.
Asphodel.....	Oct. 8, 1928.
Bentinck.....	July 5, 1926.
Binbrook.....	Nov. 12, 1927.
Blanchard.....	Jan. 9, 1928.
Brighton.....	April 7, 1928.
Brock.....	Sept. 11, 1926.
Caistor.....	Dec. 15, 1927.
Camden.....	Feb. 7, 1927.
Camden East.....	April 2, 1928.
Cavan.....	May 9, 1928.
Chatham.....	July 20, 1928.
Clarke.....	June 17, 1927.
Colborne.....	June 14, 1927.
Dawn.....	July 5, 1927.
Derby.....	Oct. 1, 1927.
Duoro.....	April 4, 1927.
East Whitby.....	May 2, 1927.
East Whitby.....	May 1, 1928.
Eramosa.....	April 9, 1928.
Ernestown.....	April 30, 1928.

TOWNSHIPS—Continued

Etobicoke.....	May 3, 1926.	Mornington.....	Nov. 1, 1926.
Euphemia.....	Jan. 21, 1928.	Mulmer.....	Oct. 19, 1928.
Finch.....	July 27, 1927.	Onondaga.....	June 6, 1927.
Fredericksburg North.....	Mar. 5, 1928.	Osnabruck.....	Oct. 2, 1928.
Ferris West.....	June 28, 1927.	Otonabee.....	Oct. 18, 1926.
Fullerton.....	Oct. 10, 1927.	Peel.....	Oct. 7, 1926.
Gainsboro, re Silverdale Corner.....	May 7, 1928.	Percy.....	Mar. 24, 1928.
Gainsboro, re Village of St. Anns.....	May 7, 1928.	Richmond.....	July 3, 1927.
Gainsboro, re Village of Wellandport.....	May 7, 1928.	Roxborough.....	Aug. 10, 1926.
Garafraxa East.....	Feb. 14, 1927.	St. Vincent.....	April 16, 1928.
Grey.....	Aug. 15, 1928.	Scott.....	May 12, 1928.
Gwillimbury West.....	Mar. 17, 1928.	Scugog.....	Oct. 13, 1926.
Hamilton.....	May 2, 1927.	Seneca.....	Mar. 12, 1928.
Holland.....	Dec. 15, 1927.	Sidney.....	July 2, 1927.
Hope.....	Feb. 5, 1927.	Smith.....	July 15, 1926.
Howick.....	Sept. 13, 1928.	Stanley.....	Oct. 3, 1927.
Hullett.....	June 2, 1927.	Tecumseh.....	June 26, 1926.
Hullett.....	June 12, 1928.	Thurlow.....	May 7, 1928.
Hullett.....	May 9, 1928.	Tilbury West.....	Feb. 11, 1928.
Keppel.....	July 3, 1928.	Turnbury.....	Sept. 11, 1928.
March.....	Oct. 6, 1927.	Vaughan.....	June 1, 1927.
Markham.....	June 1, 1927.	Vespra.....	June 16, 1928.
Marysborough.....	Sept. 13, 1926.	Wallace.....	Sept. 21, 1926.
Matchedash.....	June 6, 1927.	Walsingham South.....	Aug. 2, 1926.
Medora and Wood.....	April 4, 1927.	Warwick.....	Jan. 10, 1927.
Metcalfe.....	May 7, 1928.	Wawanosh East.....	June 1, 1927.
Minto.....	July 20, 1926.	Wawanosh East.....	May 11, 1928.
Moulton.....	July 23, 1927.	Wawanosh West.....	June 4, 1927.
Monaghan North.....	June 26, 1926.	Whitby.....	Mar. 7, 1927.
Monck.....	Dec. 13, 1926.	Williams West.....	Feb. 26, 1927.
Montague.....	Oct. 6, 1928.	Woodhouse.....	June 22, 1928.
		Wolford.....	Oct. 16, 1928.
		Zone.....	Dec. 15, 1926.
		Zorra West.....	Sept. 13, 1926.

CORPORATIONS

The Beachville White Lime Company, Ltd.....	Sept. 15, 1926.
The Canadian Pacific Railway Company (A).....	Aug. 1, 1926.
The Canadian Pacific Railway Company (B).....	Aug. 1, 1926.
The Canadian Pacific Railway Company.....	July 6, 1928.
Canadian Steel Corporation, Ltd.....	June 30, 1928.
Canadian Steel Foundries, Ltd.....	Oct. 1, 1927.
Davis Leather Company, Ltd.....	April 1, 1928.
The Exolon Company, Inc.....	Mar. 31, 1927.
The Exolon Company, Inc.....	Sept. 18, 1928.
G. T. Clarkson and I. E. Weldon and Township of Pickering.....	May 30, 1927.
Canada Cement Company.....	June 18, 1926.
The Canadian Industrial Alcohol Company.....	Sept. 1, 1926.
Cedar Rapids Transmission Company.....	Jan. 1, 1926.
Durant Motors of Canada, Ltd.....	April 1, 1927.
Feldspar Glass, Ltd.....	Jan. 20, 1928.
Gooderham & Worts, Ltd.....	Dec. 1, 1927.
Goodyear Tire & Rubber Company of Canada, Ltd.....	Aug. 25, 1927.
Grand River Railway.....	Aug. 17, 1926.
His Majesty The King—Ontario Central Reformatory.....	Aug. 1, 1927.
His Majesty The King—Agricultural College, Guelph.....	Aug. 1, 1927.
His Majesty The King—Mimico Asylum.....	Aug. 1, 1927.
Michigan Central Railway.....	July 10, 1926.
Lake Erie & Northern Railway Company.....	Aug. 17, 1926.
The Hinde & Dauch Paper Company of Canada, Ltd.....	Sept. 15, 1926.
Norman H. McLeod.....	July 14, 1928.
Page-Hersey Iron, Tube & Lead Company of Canada, Ltd.....	Jan. 1, 1926.
J. P. Porter & Sons, Ltd.....	June 1, 1928.
Provincial Paper, Ltd.....	Oct. 1, 1927.
Quinte Breweries, Ltd.....	May 27, 1927.
Stucco Products, Ltd.....	Jan. 1, 1928.
Superior Gravel Company, Ltd.....	May 1, 1928.
Waterford Sand & Gravel Company, Ltd.....	Sept. 30, 1927.

The Year's Activities

The Legal department of the Commission has had a very active year. Litigation extending over many years in which heavy damages were claimed in respect of the intake at Chippawa was finally disposed of by the judgment of the Privy Council. A large number of damage claims on behalf of and against the Commission have been dealt with during the year.

The Department has been actively engaged in the negotiation of a policy contract of insurance on behalf of the municipal commissions under which their employees will receive substantial pension and insurance benefits. The form of the policy contract has been finally settled and the scheme launched on a sound actuarial foundation. Many municipal commissions have already signed the necessary agreement with the Commission.

Right-of-Way

The continued extension of rural power lines during the year necessitated the securing of right-of-way and the approval of plans by many municipalities having control of township roads, as well as consents by commissions and other bodies, including the Department of Public Highways, having jurisdiction over provincial highways, county and suburban roads, etc. In addition it was found necessary in many cases to locate lines on private property where construction costs were found to be lessened by that procedure. In this connection it was also found necessary in many cases to secure tree-trimming rights and settlement of a few claims for damages. Work of the nature above outlined has been proceeded with in the following rural power districts: Beamsville, Beaumaris, Belleville, Brigiden, Brockville, Chatham, Chesterville, Clinton, Cobourg, Drumbo, Exeter, Ingersoll, Kingston, London, Markham, Mitchell, Napanee, Nepean, Newcastle, Norwood, Oshawa, Peterborough, Port Perry, Prescott, Preston, Ridgetown, Sarnia, Scarborough, Simcoe, Smiths Falls, St. Marys, St. Thomas, Streetsville, Tara, Tilbury, Walsingham, Waterdown, Waterford, Welland, Williamsburg, Woodbridge, Woodstock, Wroxeter.

Low-Tension Lines

Tree-trimming rights, damage claims and settlements for pole rights and anchors have been secured on the following low-tension lines during the year:

Simcoe Junction to St. Williams.
Mount Vernon to Burford.
Palermo to Milton.
Fletcher to Merlin.
Gosfield Junction to Leamington.
Waubashene to Midland.
Greenbank Distributing Station to Uxbridge Junction.
Uxbridge Junction to Uxbridge.
Uxbridge Junction to Port Perry.
Kent to Wallaceburg.
Newcastle to Orono.
Newcombe Junction to Welcome Junction.
Bowmanville to Oshawa.
Whitby Junction to Whitby Municipal Station.
Kilsyth to Tara.
Tara to Southampton.

Kilworthy Junction to Wasdells Falls.
Chesterville to Finch.
Brockville to Athens.
Morrisburg to Winchester.
Woodstock Transformer Station to Dufferin Construction Company, Innerkip.
Brant to Brantford.
Hamilton Transformer Station to Canada Crushed Stone Corporation, Vinemount.
Wiltshire Avenue to Weston.
Thorold Transformer Station to Wabash Junction.
Winchester Junction to Prescott Distributing Station.
Kitchener to Hanover.
Muskoka Beach Junction to Muskoka Beach.
Dundas Transformer Station to Dundas Municipal Station.

Substation Sites

Sites have been purchased for new substations as follows: Albion, Cataragui, Forfar, Longbranch, Lyn, New Toronto, Niagara, Vinemount.

Flooding Rights

The purchase of lands to be flooded in connection with the proposed development at Chats falls on the Ottawa river has been commenced and a considerable number of agreements for purchases of this kind have been secured. Work of a similar kind has also been proceeded with in connection with development work at Elliott Chute on the South river and at Trethewey falls on the Muskoka river.

Gatineau High-Tension Line

The work of securing tower rights and telephone pole easements on the second Gatineau circuit has also been proceeded with. The construction of the second Gatineau circuit necessitated the settlement of a very large number of claims for damages to crops, fences, etc., as well as the payment for bush and trees in many cases. This work is rapidly nearing completion.

New High-Tension Lines

New high-tension lines have been laid out and practically completed during the year as follows:

1. **From the Ottawa-Smiths Falls line to connect with the Ottawa transformer station:** It was found necessary to purchase land covering this right-of-way. This work has been nearly completed.

2. **From a point on the Welland canal near Allanburg to St. Thomas—**Steel-tower construction: The securing of this right-of-way with the exception of a very small number of damage claims has been finished.

3. **From Niagara Falls to Welland and Welland to Port Colborne:** The securing of this right-of-way is now in hand, a considerable portion of it having already been secured.

Leases for offices for rural districts and electrical inspection work have also been secured in a large number of cases.

Licenses have also been obtained from the Dominion and Provincial Governments for the right to cross navigable waters.

A number of parcels of property no longer required by the Commission have been sold.

The work of relocating lines on provincial highways where road improvement work is being carried on by the Department of Highways has rendered it necessary to make arrangements with that department as to the costs of work of this kind. In all cases this work has been satisfactorily arranged.

SECTION II

OPERATION OF THE SYSTEMS

The year 1928-29 has been one of marked expansion and growth. The construction of the plants at Trethewey Falls and Elliott Chute added two more generating stations of the semi-automatic, remote-controlled type, to the generating stations already in operation. The purchase of the Bala Electric Light Company added two more generating stations in Bala, and the purchase of the Hanover plant made the fifth generating station added. The purchase of the Madawaska and the Galetta systems included two generating stations at Calabogie and Galetta, besides transmission lines and transformer stations at Renfrew and Arnprior. The purchase of a controlling interest in the Wahnapiatae Power Company included three power houses, also transmission lines and a transformer station in the Sudbury district. This makes a total of ten generating stations added to the list of those already operated by the Commission.

Important extensions have been made to the main transmission lines. On the Niagara system, a new 110,000-volt line was put into operation from a point near Niagara Falls to St. Thomas, giving a second line of supply to that district, improving voltage regulation and service security on the western end of the system, and effecting a material saving in power through reduction of line losses. In connection with the supply of power from the Gatineau river, about 100 miles of 220,000-volt line was put into operation, from near Leaside to Cooper, this line being a part of the second circuit from Leaside station to the Ottawa river now under construction. The use of this section of line effects a saving in transmission losses. In eastern Ontario additions were made to the high-voltage transmission lines as follows: new lines were put into operation between the Ottawa river (connecting with the Gatineau Power Company supply) and Smiths Falls; between Smiths Falls and Kingston, connecting with the Central Ontario and Trent system; between Smiths Falls and Brockville, connecting with the St. Lawrence system; and a short line between Smiths Falls and the Rideau System lines. Through these lines the Central Ontario and Trent, the St. Lawrence, the Rideau and the Ottawa systems are all interconnected. By means of these interconnections spare power on any system may be transferred to another system, or in emergency power may be supplied to any system to make up for failure of the system's own supply. The interconnections also make possible the transfer of power from the Gatineau Power Company to all of the above systems.

While the four eastern systems are still operated as separate systems for administrative and accounting purposes, through their physical interconnection

TOTAL POWER GENERATED AND PURCHASED

Plant	Normal operating capacity Oct. 31, 1929 horsepower	Peak load during fiscal year 1928-1929 horsepower	Total output during fiscal year 1928-1929 kilowatt-hours
HYDRO-ELECTRIC GENERATING PLANTS			
Niagara: Queenston plant.....	522,790	525,469	2,827,620,000
Niagara: "Ontario Power" plant.....	183,650	182,976	772,716,700
Niagara: "Toronto Power" plant.....	147,450	143,432	177,705,000
Sidney, Dam No. 2.....	4,020	4,759	18,863,100
Frankford, Dam No. 5.....	3,485	3,566	10,544,250
Meyersburg, Dam No. 8.....	6,430	8,150	25,758,290
Hague's Reach, Dam No. 9.....	4,500	4,692	16,640,150
Ranney Falls, Dam No. 10.....	9,650	10,992	39,715,980
Seymour, Dam No. 11.....	4,020	4,048	16,493,620
Heely Falls, Dam No. 14.....	12,060	15,282	36,303,580
Auburn, Dam No. 18.....	2,010	2,466	9,856,110
Fenelon Falls, Dam No. 30.....	1,000	1,005	2,537,380
Cameron Falls.....	75,000	77,117	293,543,400
Big Chute.....	5,700	5,791	16,323,480
Eugenia Falls.....	7,300	7,332	22,852,400
Wasdells Falls.....	1,200	1,126	4,227,620
South Falls.....	5,200	5,405	22,770,240
Hanna Chute.....	1,500	1,609	4,838,400
Trethewey Falls.....	2,200	2,145	254,400
Hanover.....	400	450	123,648
Nipissing.....	2,346	2,399	8,351,960
Elliott Chute.....	2,413	1,434	153,280
Bingham Chute.....	1,200	1,290	2,678,960
High Falls.....	2,400	3,127	9,184,920
Carleton Place.....	428	442	258,328
Total.....	1,008,352	1,016,594	4,340,315,196

POWER PURCHASED

Plant	Contract amount horsepower	Peak horsepower	Total purchase kilowatt-hours
Canadian Niagara Power Co.....	20,000	21,716	115,541,400
Gatineau Power Co.—25-cycle.....	150,000	155,230	408,001,380
Orillia Water, Light & Power Commission†.....	.....	2,660	428,630
C.P.R. plant, Port McNicoll.....	1,072	1,560	143,900
Owen Sound steam plant.....	900	938	309,200
Rideau Power Co.....	487	950	1,101,600
Ottawa and Hull Power & Mfg. Co.....	20,000	22,079	69,802,200
Gatineau Power Co.—60-cycle.....	12,000	12,627	20,379,260
Cedars Rapids Power Co.....	7,500	10,195	33,084,000
Campbellford Water & Light Commission†.....	2,010	2,279	3,299,200
Peterborough Hydraulic Power Co.†.....	.....	1,743	64,030
Canadian General Electric Co.†.....	.....	.....	45,500
Corporation of Fenelon Falls.....	.....	.....	.....
Kaministiquia Power Co.....	.....	9,920	421,533
Total purchased.....	213,969	241,897	652,621,833
Grand total, 1929.....	1,222,321	1,258,491*	4,992,937,029
Grand total, 1928.....	1,141,887	1,149,545*	4,341,498,634
Increase.....	+80,434	+108,946*	+651,438,395

*Peak totals given are direct sums of plant peaks as shown, without allowance for diversity in time. Therefore these totals do not indicate the demands on the various systems where there is more than one plant supplying power. Consult also table in Chairman's letter of transmittal.

†Reciprocal arrangement for surplus power.

they form an extensive operating network extending from Whitby on the west to Cornwall on the east, and from Lindsay to Ottawa on the north, covering a territory 25 to 45 miles wide and about 240 miles long. In area this network approaches that of the Niagara system, though not in population served or load carried.

Another outstanding feature of this year's operation was the large increase in load on most of the systems. The peak loads of all systems show an increase over last year (excluding export power in each case), amounting to sixteen per cent on the total for all systems. Taking figures for the total load in kilowatt-hours, the increase for all systems this year was 799,000,000 kilowatt-hours above the previous year, a twenty-three-per cent increase. This year's increase is decidedly greater than a normal year's growth, and is much greater than the growth during the previous year, which amounted to 310,000,000 kilowatt-hours, or ten per cent. The amount of power purchased this year shows a large increase, more than 415,000,000 kilowatt-hours, above last year, but the total power purchased from all sources during the year, 652,000,000 kilowatt-hours, is less than the year's increase in load. While a great part of the increase in load is due to large industrial consumers in the Niagara peninsula, yet there has been a general increase on all systems, except the Georgian Bay, indicating wide-spread business activity and prosperity. The decrease on the Georgian Bay system was largely due to special conditions arising out of the reduction in the western grain crop and the storage in western elevators of more than the usual amount of grain at the end of the season for navigation. This has reduced the load of the grain elevators in Georgian Bay ports, which forms a substantial part of the Georgian Bay system load. In so far as the reduction in load has been caused by greater storage in western elevators, this load may be considered as merely delayed and will appear in next year's load figures when the grain is brought down. The increase in the total load of the Central Ontario and Trent system was 6 per cent, which is slightly above normal, though not equal to last year's increase of ten per cent; the increase on the Ottawa system was nine per cent, which is about that of an average year; on the Nipissing system the increase was twelve per cent, which is distinctly above normal; the St. Lawrence and Rideau systems show a large gain, amounting to twenty per cent, and on the Thunder Bay system the increase reached the unusual figure of 46 per cent.

The growth of load on the Niagara system was sufficiently large to require an arrangement with the Gattineau Power Company whereby 50,000 horsepower, of the allotment due for delivery October 1, 1929, became available September 3, and a further 20,000 horsepower, of the amount due for delivery October 1, 1930, became available October 16, 1929.

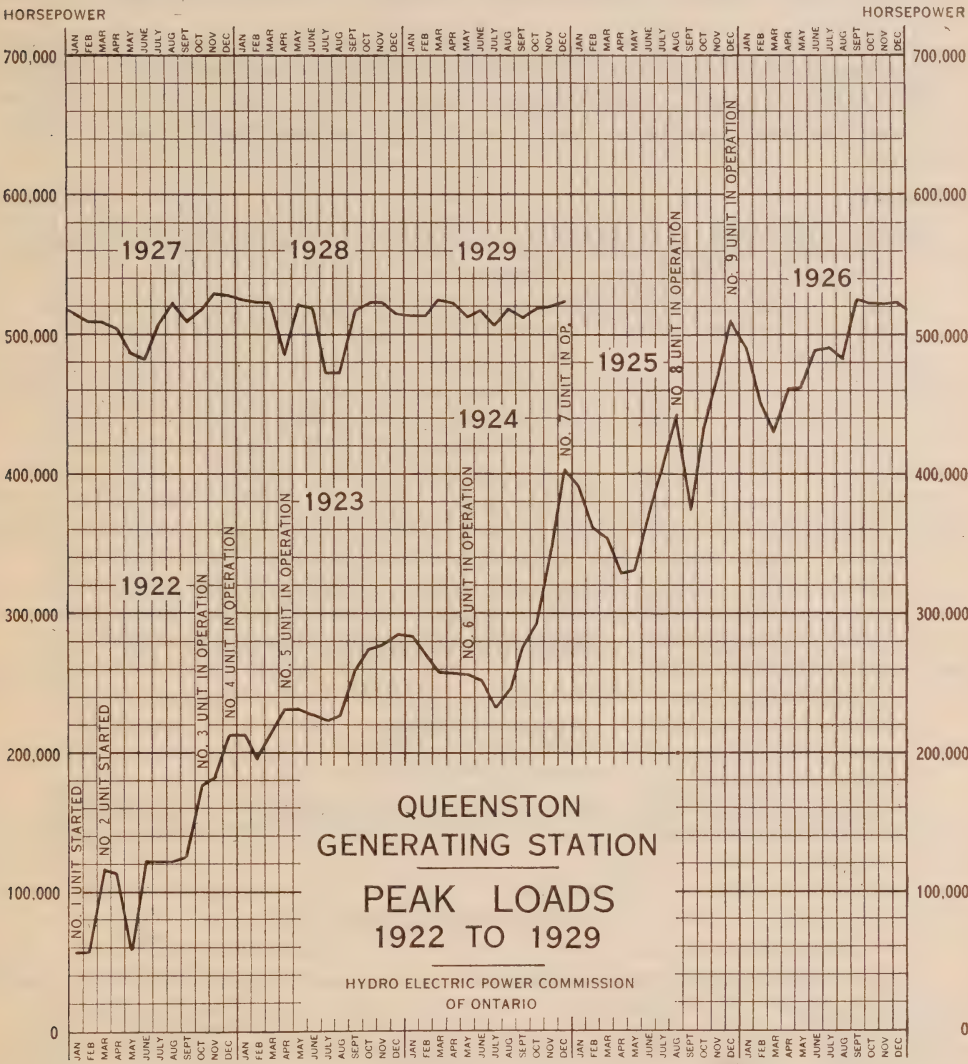
A dry summer season affected the water supply and generating capacity on all except the Niagara, St. Lawrence and Ottawa systems. The water supply was particularly deficient on the Georgian Bay system, where special arrangements had to be made for the purchase of power from outside sources. On the Central Ontario and Trent system, advantage was taken of the new line connecting through Smiths Falls with the Gattineau supply, relieving the situation, although it necessitated increasing the year's contract amount by 6,000 horsepower.

The output of the plants purchased during the year in the Madawaska, Galetta, Bala and Wahnapiatae districts is not included in the figures mentioned above, or in the tabulation of total power generated given herewith, complete figures not yet being available.

NIAGARA SYSTEM

Queenston Generating Station

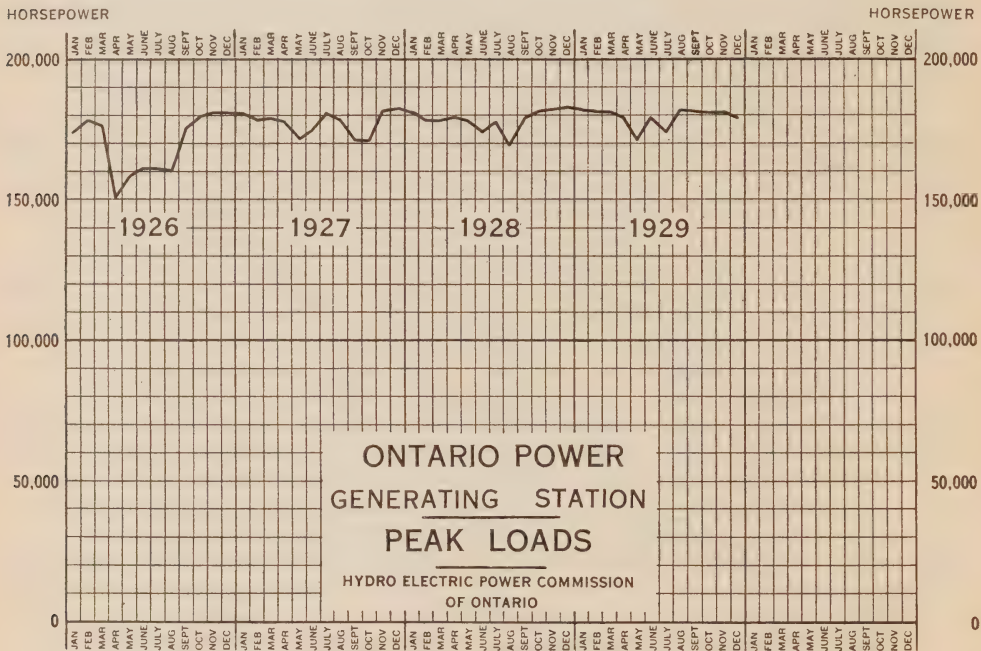
There were no failures of electrical equipment at this plant during the year. From the first of November to the latter part of March, only the routine maintenance necessary to keep the plant in good operating condition was carried out,



as all equipment was required to carry the load. On April 20, after the usual seasonal decrease in load, No. 9 unit was removed from service and the armature completely rewound with new type coils. During this period the draft tube cone, the top portion of which had failed last year, was built up by mounting thereon a steel cap. Repairs to this unit were completed and it was returned to service on May 21, 1929. No. 8 unit was then removed, the armature rewound

in a similar way to No. 9, the top part of the concrete cone cut off and capped with metal, and the machine completely inspected, the unit being returned to service on June 8, 1929. On July 7, 1929, No. 4 unit was removed from service, the armature was rewound and an inspection made of all parts. The rewinding was finished and the machine returned to service on July 18. On July 19, No. 3 unit was completely dismantled, the generator was given a thorough overhauling and cleaning, and the turbine runner was replaced with the rebuilt welded runner removed from No. 4 unit last year, putting the machine in first-class condition. The unit was returned to service on August 12, 1929.

The usual annual inspection of all electrical equipment was carried out and repairs made where necessary. Turbine guide bearings were renewed, and some of the turbine runners, which showed signs of wear, were welded. Parts of the building and structures, both inside and outside, were painted during the year.

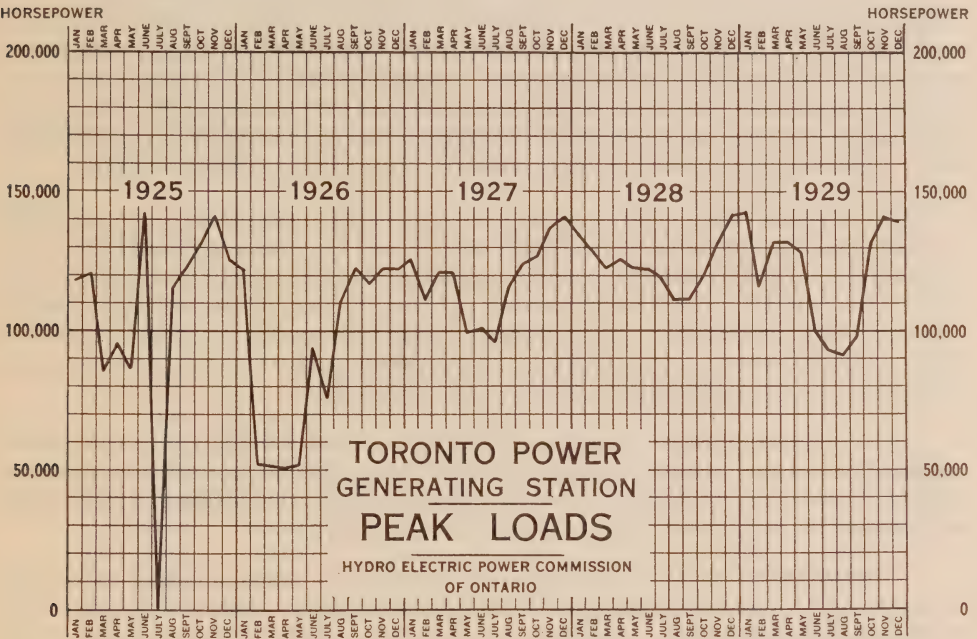


Ontario Power Plant

No serious troubles were experienced in the general operation of this plant during the year. On November 3, 1928, one armature coil of No. 2 generator broke down, necessitating the replacement of one group. The machine was repaired and returned to service on November 8. On December 23, 1928, the armature on No. 1 generator broke down in service, necessitating the removal of one group of armature coils, which was repaired and the unit returned to service on December 29. No. 2 generator was removed from service in May, 1929, for the installation of a new turbine runner and general overhauling. During this period the generator field coils were reinsulated, armature coils cleaned and complete windings thoroughly painted. This unit was returned to

service on June 22. On July 7, No. 15 unit was removed from service to install spare turbine runners, and both turbine and generator were generally overhauled. This unit was returned to service on August 28, 1929.

During April, 1929, No. 3 pipe line, of wood-stave construction, was given a very close external inspection and all bands and iron work given a coat of rust-resisting paint. The regular routine inspection and repair of all equipment was carried on during the year and all necessary repairs made, keeping the plant in good operating condition.



Toronto Power Plant

There were no failures in generating equipment at this plant during the year. Turbine No. 2 was given a complete overhauling and all worn parts repaired or renewed. The penstocks of units Nos. 4, 6, 8, 9, 10 and 11 were painted with a special rust-resisting paint. On April 14, 1929, the discharge tunnel was inspected and it was found that a part of the lining on the bottom had disintegrated and disappeared. The entire plant was shut down from June 28 until July 8, 1929, during which period complete repairs were made to the tunnel lining.

All electrical equipment was inspected regularly and repairs made where necessary. At the transformer station, No. 1 transformer of No. 2 bank, of 6,000-kv-a. capacity, which failed on September 15, 1928, was repaired and placed in service on January 29, 1929. There were four failures of 2,640-kv-a. units while in service, as follows: No. 1 transformer of No. 4 bank failed July 18, 1929, and was repaired and returned to service on October 19, 1929. No. 3 transformer of No. 3 bank failed on September 14, 1929; No. 1 transformer on No. 5 bank and No. 2 transformer of No. 3 bank failed on October 16, 1929. These latter three units are now being rebuilt.

Transmission, Transformation and Distribution

The operation of the transmission system was continued as three divisions, known as the yellow, green and brown, during the year. There were no interruptions on the brown and yellow divisions during the year and only one of approximately one-minute duration on the green division feeding to the east.

The 220,000-volt line from the Ottawa river to Toronto and the step-down transformer station at Leaside, gave extremely good service during the year. There were altogether ten interruptions to service. Four of these, covering a total period of one hour and ten minutes, were caused by lightning; three interruptions, totalling $26\frac{1}{2}$ minutes, were caused by failure of power supply at point of generation, and three interruptions amounting to a total of 10 hours and 45 minutes were due to trees or other foreign objects coming in contact with the line. There was no failure of line insulation during any of these troubles.

On April 1, 1929, a severe sleet and wind storm occurred over the entire system, resulting in line failures in the Essex, Kent, London and Dundas districts, and in a fire at the Woodstock station, damaging the low-tension switching equipment. On July 18, 1929, during a severe lightning storm, a 110,000-volt lightning arrester failed in Dundas station, followed by a serious fire. On December 13, 1928, a fire occurred on the low-tension switching structure of Guelph station, caused by a failure of local lines in the city of Guelph.

All station equipment, including both high-tension and distributing stations, received the usual routine inspection and overhauling in accordance with our standard schedule. On several high-tension stations the original 110,000-volt oil-breaker bushings were replaced with the gum-filled type.

Twenty transformer failures occurred during the year, of which three were returned to the manufacturers for repairs; fourteen were repaired by the Commission maintenance staff; one unit was scrapped, and two are now in course of being repaired.

The usual regular patrol inspection and maintenance work was carried out on the high-tension and distribution lines during the year, making all repairs necessary to lines damaged during storms.

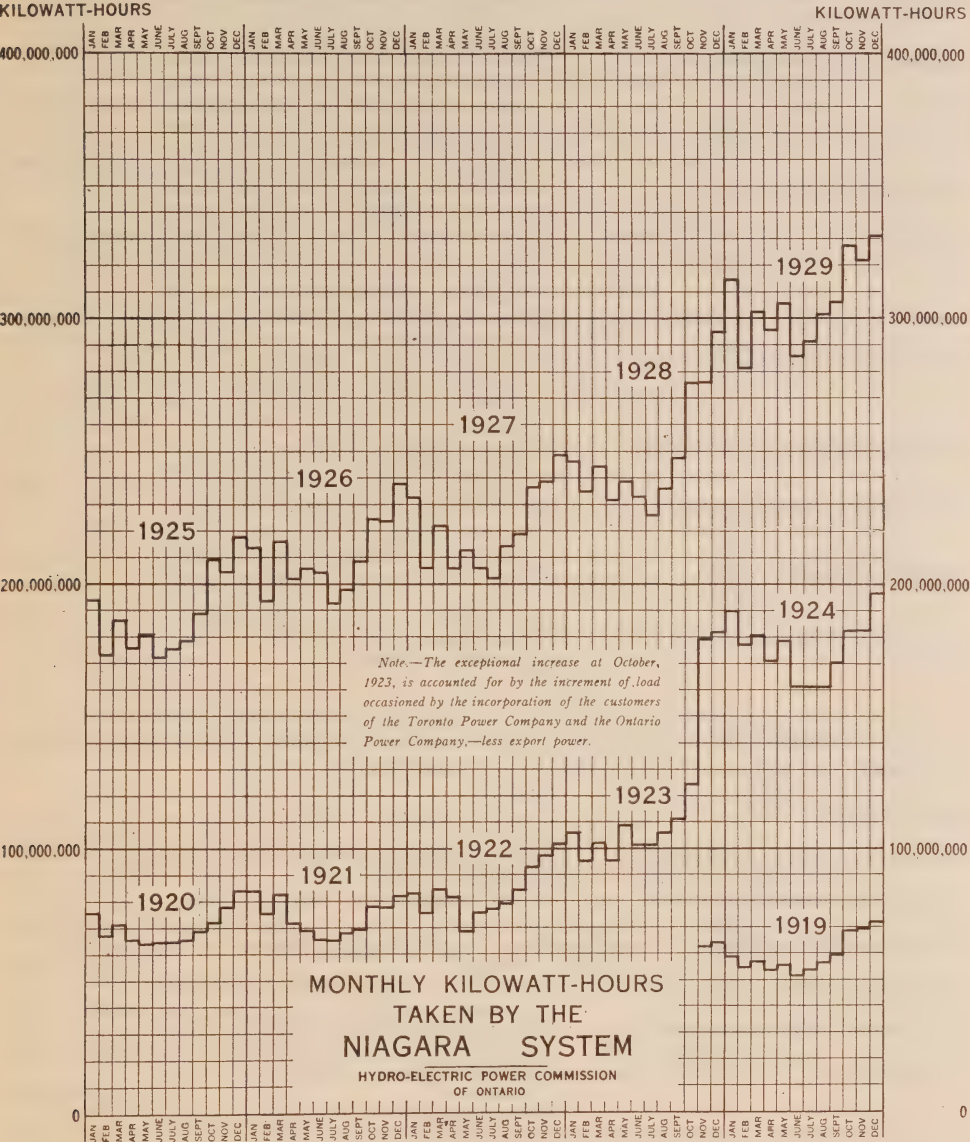
Changes on the 110,000-volt lines were made at Niagara Falls, Allanburg, Hamilton and Burlington junctions in order to facilitate load changes and to improve operating conditions.

The distribution lines supplying Wallaceburg, Petrolia, St. Marys Cement, Waterloo and the Dominion Tire Company, were overhauled during the year. Insulators were tested on many low-tension lines and changed where found defective.

The telephone circuits following the Toronto Power right-of-way from Niagara Falls to Toronto were transposed and a phantom circuit installed. A telephone line, paralleling the 220,000-volt circuit from the Ottawa river to Leaside, was completed and put in operation on October 9, 1929, and gives extremely good service. Relays were installed on the telephone protective equipment at all stations between Dundas and St. Thomas and have improved operating conditions.

On the 220,000-volt system a new section of line from a point about half-a-mile east of Leaside to Cooper, a distance of 100 miles, was put into service. This is a part of the second circuit to the Ottawa river, the balance being still under construction.

On the 110,000-volt system, new lines from Allanburg junction to St. Thomas, and from Welland junction to Port Colborne were put in operation.



On the distribution lines the following were put in operation: 26,400-volt lines from Essex transformer station to Windsor; LaSalle junction to LaSalle; Gosfield junction to Leamington; and from Fletcher to Merlin; and 13,200-volt lines from Leaside to Scarborough; Toronto to Weston; Albion Park junction to Albion Park, and Hamilton to Vinemount. The line feeding Kingston Road division of Toronto and York Radial Railway was dismantled.

During the year a number of changes were made in the capacity of high-tension stations and distributing stations, as follows:—

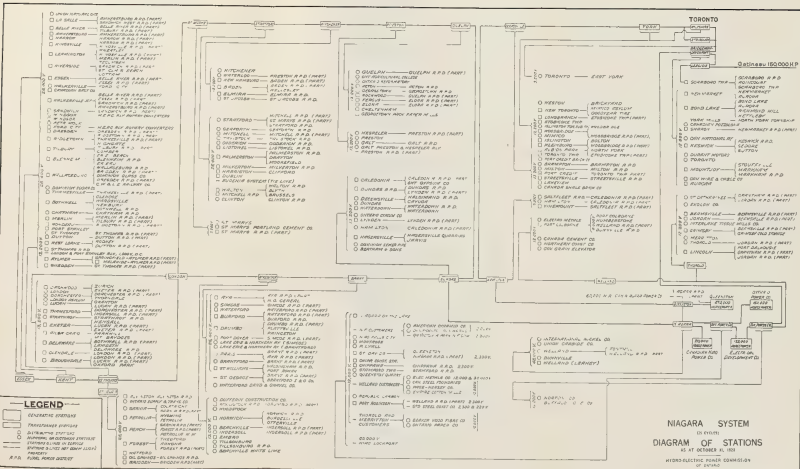
Mount Joy distributing station	Three single-phase, 150-kv-a. transformers installed in place of one three-phase, 150-kv-a. transformer..	Nov. 22, 1928
Leamington distributing station	Three single-phase, 500-kv-a. transformers installed in place of three 250-kv-a. transformers	Jan. 26, 1929
Glendale distributing station	Three single-phase, 250-kv-a. transformers installed in place of three single-phase 150-kv-a. transformers.	Mar. 29, 1929
Walton distributing station	Three single-phase, 150-kv-a. transformers installed in place of one three-phase, 150-kv-a. transformer..	May 22, 1929
Elmira distributing station	Three single-phase, 500-kv-a. transformers installed in place of three single-phase, 250-kv-a. transformers.	June 23, 1929
Broughdale distributing station	Three single-phase, 250-kv-a. transformers installed in place of three single-phase 150-kv-a. transformers..	July 26, 1929
Stratford high-tension station	Three single-phase, 2,500-kv-a. transformers installed	Mar. 23, 1929
New Toronto distributing station	One three-phase, 3,000-kv-a. transformer installed and one three-phase, 1,500-kv-a. transformer removed	Feb. 17, 1929
New Toronto distributing station	One three-phase, 3,000-kv-a. and three single-phase, 1,500-kv-a. transformer installed	July 14, 1929
Etobicoke Township distributing station	Three single-phase, 500-kv-a. transformers installed in place of two three-phase, 300-kv-a. transformers.	July 13, 1929
Watford distributing station	Three single-phase, 100-kv-a. transformers installed in place of one three-phase, 150-kv-a. transformer..	April 11, 1929
Hamilton high-tension station	Three single-phase, 5,000-kv-a. transformers installed	Aug. 26, 1929

New transformer stations have been placed in service with transforming equipment, as follows:—

Ford distributing station	One three-phase, 3,000-kv-a. transformer	Dec. 4, 1928
Scarborough distributing station	Three single-phase, 1,000-kv-a. transformers	Feb. 15, 1929
Merlin distributing station	Three single-phase, 150-kv-a. transformers	Feb. 10, 1929
LaSalle distributing station	Three single-phase, 150-kv-a. transformers	Dec. 16, 1928
Albion Park distributing station	Two three-phase, 300-kv-a. transformers	Sept. 3, 1929
Vinemount distributing station	Three single-phase, 150-kv-a. transformers	May 17, 1929
Cyanamid transformer station	Six single-phase, 7,500-kv-a. transformers	Dec. 4, 1928
	Three single-phase, 7,500-kv-a. transformers	May 6, 1929

The following transformer stations were discontinued during the year:—

Fletcher distributing station	Now being fed from rural lines.	Feb. 10, 1929
Port Colborne transformer station	Now being fed from Welland	Sept. 5, 1929
Blantyre distributing station	Now being fed from Toronto	Oct. 28, 1928



NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1927-1928-1929

Municipality	Peak load in horsepower			Change in load 1928-1929	
	Oct., 1927	Oct., 1928	Oct., 1929	Decrease	Increase
Acton.....	490.0	571.7	609.0		37.3
Agincourt.....	102.5	112.8	123.0		10.2
Ailsa Craig.....	78.2	100.8	82.3	18.5	
Alvinston.....	91.1	77.0	78.0		1.0
Amherstburg.....	465.0	513.4	573.7		60.3
Ancaster Township.....	277.0	356.5	351.2	5.3	
Arkona.....	52.9	60.0	60.0		
Aurora.....	651.0	785.0	825.7		40.7
Aylmer.....	411.0	468.0	457.3	10.7	
Ayr.....	124.0	128.9	136.2		7.3
Baden.....	297.6	313.6	268.1	45.5	
Barton Township.....	526.8	652.4	79.7	572.7	
Beachville.....	201.0	214.5	260.0		45.5
Belle River.....	121.3	70.3	144.7		74.4
Blenheim.....	351.0	332.4	345.8		13.4
Blyth.....	55.3	77.7	91.4		13.7
Bolton.....	111.2	101.5	122.4		20.9
Bothwell.....	185.6	109.9	103.2	6.7	
Brampton.....	1,654.5	1,935.8	2,018.2		82.4
Brantford.....	8,838.8	9,781.5	10,140.8		359.3
Brantford Township.....	345.5	390.1	630.0		239.9
Bridgeport.....		177.0	153.8	23.2	
Brigden.....	53.6	118.7	81.7	37.0	
Brussels.....	112.6	124.3	123.3	1.0	
Burford.....	116.6	136.8	138.6		1.8
Burgessville.....	45.8	60.7	49.2	11.5	
Caledonia.....	260.7	281.5	323.6		42.1
Campbellville.....	20.1	21.4	27.3		5.9
Cayuga.....	57.6	72.4	85.1		12.7
Chatham.....	4,163.2	4,382.1	4,637.2		255.1
Chippawa.....	266.7	211.8	260.0		48.2
Clifford.....	39.9	52.5	51.6	0.9	
Clinton.....	354.0	443.9	399.4	44.5	
Comber.....	180.2	152.8	147.4	5.4	
Cottam.....	43.5	49.6	59.0		9.4
Courtright.....	33.5	36.2	49.6		13.4
Dashwood.....	71.6	76.1	62.6	13.5	
Delaware.....	24.4	32.1	36.4		4.3
Dorchester.....	70.4	70.4	72.2		1.8
Drayton.....	83.1	82.0	86.1	0	4.1
Dresden.....	291.0	251.8	278.0		26.2
Drumbo.....	54.4	70.4	65.4	5.0	
Dublin.....	56.5	77.6	40.2	37.4	
Dundas.....	1,329.7	1,454.4	1,555.0		100.6
Dunnville.....	577.8	603.2	668.9		65.7
Dutton.....	178.3	209.1	210.4		1.3
East Windsor (Ford City).....	3,029.5	3,989.2	3,151.4	837.8	
Elmira.....	901.7	1,016.1	1,067.0		50.9
Elora.....	386.0	396.8	401.6		4.8
Embro.....	67.0	74.8	79.7		4.9
Erieau.....	42.9	50.2	46.2	4.0	
Erie Beach.....	10.7	10.0	9.8	0.2	
Essex.....	311.0	312.3	337.8		25.5
Etobicoke Township.....	2,045.5	2,494.1	2,942.4		448.3
Exeter.....	384.7	416.2	411.5	4.7	

NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1927-1928-1929—Continued

Municipality	Peak load in horsepower			Change in load 1928-1929	
	Oct., 1927	Oct., 1928	Oct., 1929	Decrease	Increase
Fergus.....	519.0	573.8	685.5	.....	111.7
Fonthill.....	88.5	104.5	123.2	.....	18.7
Ford City—See East Windsor.					
Forest.....	230.4	263.4	269.9	.....	6.5
Galt.....	6,498.4	6,748.7	7,089.6	.....	340.9
Georgetown.....	719.2	755.4	854.7	.....	99.3
Glencoe.....	135.7	163.8	147.4	16.4	.....
Goderich.....	935.8	1,035.2	1,160.8	.....	125.6
Granton.....	73.4	86.0	80.0	6.0	.....
Guelph.....	6,925.0	7,630.1	8,154.8	.....	524.7
Hagersville.....	1,039.0	1,278.8	1,214.5	64.3	.....
Hamilton.....	35,459.5	51,943.6	65,685.8	.....	13,742.2
Harriston.....	244.0	270.2	268.1	2.1	.....
Harrow.....	164.9	205.3	300.2	.....	94.9
Hensall.....	116.6	90.6	152.4	.....	61.8
Hespeler.....	970.5	1,071.8	1,134.6	.....	62.8
Highgate.....	108.5	119.3	117.3	2.0	.....
Humberstone.....	370.0	305.6	268.1	37.5	.....
Ingersoll.....	1,983.0	2,173.2	2,104.6	68.6	.....
Jarvis.....	141.5	150.1	169.3	.....	19.2
Kingsville.....	344.2	388.7	411.5	.....	22.8
Kitchener.....	13,340.0	14,457.0	16,042.8	.....	1,585.8
Lambeth.....	90.0	107.7	97.2	10.5	.....
LaSalle.....	156.8	230.5	265.4	.....	34.9
Leamington.....	793.5	871.3	1,272.1	.....	400.8
Listowel.....	618.6	727.9	833.8	.....	105.9
London.....	23,539.0	25,884.4	28,337.6	.....	2,453.2
London Township V.A.....	174.0	175.0	230.2	.....	55.2
Lucan.....	172.4	155.9	175.6	.....	19.7
Lynden.....	123.3	70.7	67.5	3.2	.....
Markham.....	127.7	146.4	155.3	.....	8.9
Merlin.....	136.0	130.0	162.2	.....	32.2
Merritton.....	807.0	1,075.1	2,300.3	.....	1,225.2
Milton.....	960.6	1,092.3	1,124.4	.....	32.1
Milverton.....	537.5	585.8	359.2	226.6	.....
Mimico.....	1,680.0	1,857.9	2,010.7	.....	152.8
Mimico Asylum.....	65	65	65	.....	.....
Mitchell.....	369.4	451.7	393.4	58.3	.....
Moorefield.....	49.2	56.0	54.0	2.0	.....
Mount Brydges.....	63.5	68.3	76.9	.....	8.6
Newbury.....	34.1	38.2	33.5	4.7	.....
New Hamburg.....	491.0	584.1	413.3	170.8	.....
Newmarket.....	737.0	697.0	978.5	.....	281.5
New Toronto.....	4,343.0	4,871.2	5,533.5	.....	662.3
Niagara Falls.....	8,013.4	8,910.2	9,408.8	.....	498.6
Niagara-on-the-Lake.....	437.0	494.6	525.5	.....	30.9
Norwich.....	306.3	322.5	315.0	7.5	.....
Oil Springs.....	268.1	263.8	180.0	83.8	.....
Ontario Agricultural College.....	295.0	312.3	270.8	41.5	.....
Ontario Central Reformatory.....	230.5	263.4	208.5	54.9	.....
Otterville.....	72.3	72.4	74.1	.....	1.7

NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1927-1928-1929—Continued

Municipality	Peak load in horsepower			Change in load 1928-1929	
	Oct., 1927	Oct., 1928	Oct., 1929	Decrease	Increase
Palmerston	420.9	496.6	438.4	58.2	.....
Paris	1,216.0	1,284.2	1,267.1	17.1	.....
Parkhill	130.0	138.0	147.4	.....	9.4
Petrolia	694.1	670.6	758.2	.....	87.6
Plattsville	37.5	45.9	51.7	.....	5.8
Point Edward	233.7	238.6	398.1	.....	159.5
Port Colborne	1,199.8	1,282.8	1,481.2	.....	198.4
Port Credit	401.0	475.9	485.2	.....	9.3
Port Dalhousie	284.2	327.7	380.7	.....	53.0
Port Dover	236.0	251.3	280.8	.....	29.5
Port Rowan	52.2	54.3	59.3	.....	4.9
Port Stanley	171.6	154.1	184.9	.....	30.8
Preston	3,013.0	3,224.9	3,502.7	.....	277.8
Princeton	35.5	36.2	75.0	.....	38.8
Queenston	80.4	85.8	85.8	.....	.....
Richmond Hill	195.7	201.4	249.3	.....	47.9
Ridgetown	363.0	430.3	461.1	.....	30.8
Riverside	1,181.0	1,126.0	1,254.7	.....	128.7
Rockwood	65.0	92.5	70.1	22.4	.....
Rodney	121.7	119.5	130.6	.....	11.1
St. Catharines	7,718.4	8,034.4	9,061.9	.....	1,027.5
St. Clair Beach	62.3	71.7	88.4	.....	16.7
St. George	112.6	154.4	143.4	11.0	.....
St. Jacobs	159.0	189.2	203.4	.....	14.2
St. Marys	1,383.0	1,349.8	1,231.9	117.9	.....
St. Thomas	4,903.6	5,051.2	5,502.7	.....	451.5
Sandwich	3,308.3	3,746.7	3,664.9	81.8	.....
Sarnia	5,328.6	5,997.5	6,447.6	.....	450.1
Scarborough Township	1,958.6	2,320.3	2,294.8	25.5	.....
Seaforth	454.0	572.0	663.4	.....	91.4
Simcoe	883.0	1,017.7	1,153.3	.....	135.6
Springfield	72.4	124.6	91.1	33.5	.....
Stamford Township	1,201.7	1,429.1	1,636.0	.....	206.9
Stouffville	100.5	115.2	128.1	.....	12.9
Stratford	6,809.6	7,124.8	7,120.8	4.0	.....
Strathroy	760.6	781.7	891.2	.....	109.5
Sutton	96.5	103.2	107.2	.....	4.0
Tavistock	409.1	442.3	420.9	21.4	.....
Tecumseh	259.8	319.1	444.7	.....	125.6
Thamesford	115.3	137.4	142.7	.....	5.3
Thamesville	162.7	186.3	210.4	.....	24.1
Thedford	52.3	54.9	51.3	3.6	.....
Thorndale	42.5	61.0	59.0	2.0	.....
Thorold	1,255.4	801.3	1,448.0	.....	646.7
Tilbury	421.0	528.1	514.7	13.4	.....
Tillsonburg	741.0	738.6	841.8	.....	103.2
Toronto	216,588.0	241,366.0	270,628.0	.....	29,262.0
Toronto Township	1,057.6	1,198.6	1,268.1	.....	69.5
Walkerville	4,839.0	6,353.9	9,230.5	.....	2,876.6
Wallaceburg	3,185.0	3,269.4	3,451.7	.....	182.3
Wardsville	22.5	32.1	29.5	2.6	.....
Waterdown	186.0	195.8	202.3	.....	6.5
Waterford	315.8	396.8	382.0	14.8	.....
Waterloo	2,681.0	2,948.4	3,203.3	.....	254.9
Watford	166.0	201.0	171.6	29.4	.....
Welland	3,265.4	3,433.0	4,248.0	.....	815.0

NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1927-1928-1929—Continued

Municipality	Peak load in horsepower			Change in load 1928-1929	
	Oct., 1927	Oct., 1928	Oct., 1929	Decrease	Increase
Wellesley	128.5	133.2	104.6	28.6	.....
West Lorne	328.0	324.1	345.8	.....	21.7
Weston	2,160.5	2,398.8	2,957.1	.....	558.3
Wheatley	104.5	117.1	134.8	.....	17.7
Windsor	23,970.2	27,616.9	27,712.3	.....	95.4
Woodbridge	222.0	217.1	209.1	8.0	.....
Woodstock	4,155.0	4,781.5	4,977.2	.....	195.7
Wyoming	48.2	58.7	50.6	8.1	.....
York, East, Township	2,889.0	3,382.0	4,017.4	.....	635.4
York, North, Township	930.2	1,240.5	1,414.2	.....	173.7
Zurich	69.0	87.9	83.2	4.7	.....

In some instances the decreases shown are due entirely or in part to transference of load from a municipality to a newly established rural power district.

NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1927-1928-1929

Rural power district	Peak load in horsepower			Change in load 1928-1929	
	Oct., 1927	Oct., 1928	Oct., 1929	Decrease	Increase
Acton .....	.....	2.0	2.0	.....	.....
Amherstburg	370.4	404.5	533.1	.....	128.6
Aylmer	139.9	133.5	155.3	.....	21.8
Ayr	8.0	9.0	16.5	.....	7.5
Baden	115.7	148.7	193.1	.....	44.4
Beamsville	483.9	537.5	625.3	.....	87.8
Belle River	163.3	158.2	261.0	.....	102.8
Blenheim	52.5	82.7	134.7	.....	52.0
Bond Lake	500.0	520.2	522.8	.....	2.6
Bothwell	13.5	109.5	109.5	.....	.....
Brampton	10.5	64.2	109.1	.....	44.9
Brant	164.4	259.8	291.4	.....	31.6
Brigden	8.8	21.9	27.0	.....	5.1
Burford	68.3	68.0	93.5	.....	25.5
Caledonia	23.3	102.1	136.7	.....	34.6
Chatham	115.8	254.8	411.0	.....	156.2
Chippawa	76.4	108.6	99.2	9.4	.....
Clinton .....	.....	37.9	61.8	.....	23.9
Delaware	110.1	174.5	201.1	.....	26.6
Dorchester	259.2	248.1	290.8	.....	42.7
Dresden .....	.....	2.0	3.7	.....	1.7
Drumbo	47.2	58.7	36.3	22.4	.....
Dundas	306.0	341.9	415.3	.....	73.4
Dunnville .....	.....	3.2	4.0	.....	0.8
Dutton	12.7	23.2	82.5	.....	59.3
Elmira	16.3	21.4	24.1	.....	2.7
Elora	24.9	40.1	43.3	.....	3.2

NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1927-1928-1929—Continued

Rural power district	Peak load in horsepower			Change in load 1928-1929	
	Oct., 1927	Oct., 1928	Oct., 1929	Decrease	Increase
Essex.....	95.8	140.9	214.9	.....	74.0
Exeter.....	153.1	144.1	160.0	.....	15.9
Forest.....	2.7	2.9	6.3	.....	3.4
Galt.....	78.2	105.7	131.4	.....	25.7
Georgetown.....	35.5	39.5	47.4	.....	7.9
Goderich.....	45.2	35.8	42.9	.....	7.1
Grantham.....	354.8	417.8	434.1	.....	16.3
Guelph.....	45.5	58.8	115.5	.....	56.7
Haldimand.....	10.5	22.0	40.0	.....	18.0
Harrow.....	172.2	165.3	205.2	.....	39.9
Ingersoll.....	6.0	117.0	361.0	.....	244.0
Jordan.....	24.1	44.1	207.5	.....	163.4
Keswick.....	187.6	116.0	151.4	.....	35.4
Kingsville.....	390.8	355.6	402.3	.....	46.7
Listowel.....	43.5	50.6	63.5	.....	12.9
London.....	765.8	1,014.7	1,222.6	.....	207.9
Lucan.....	32.2	41.1	41.9	.....	0.8
Lynden.....	76.8	117.2	101.6	15.6	.....
Markham.....	114.9	181.9	208.4	.....	26.5
Milton.....	41.5	73.3	105.1	.....	31.8
Milverton.....	25.7	29.7	36.8	.....	7.1
Mitchell.....	83.8	100.0	123.6	.....	23.6
Newmarket.....	151.3	182.7	207.3	.....	24.6
Niagara.....	519.6	609.7	523.0	86.7	.....
Norwich.....	158.0	183.8	198.4	.....	14.6
Oil Springs.....	37.5	41.8	38.5	3.3	.....
Palmerston.....	1.0	3.0	3.8	.....	0.8
Petrolia.....	1.6	5.3	5.3	.....	.....
Preston.....	442.6	508.5	607.7	.....	99.2
Ridgetown.....	109.9	239.3	255.3	.....	16.0
St. Jacobs.....	192.0	163.3	165.1	.....	1.8
St. Marys.....	.....	96.4	142.7	.....	46.3
St. Thomas.....	266.8	430.2	391.4	38.8	.....
Saltfleet.....	442.0	545.9	522.2	23.7	.....
Sandwich.....	725.6	850.9	1,022.4	.....	171.5
Sarnia.....	315.0	328.1	435.6	.....	107.5
Scarborough Township.....	66.2	81.6	205.0	.....	123.4
Seaforth.....	.....	62.0	23.7	38.3	.....
Simcoe.....	85.4	106.3	122.0	.....	15.7
Stamford.....	95.8	105.2	161.6	.....	56.4
Stratford.....	147.4	155.8	136.2	19.6	.....
Strathroy.....	16.4	23.9	31.9	.....	8.0
Streetsville.....	70.1	119.6	274.0	.....	154.4
Tavistock.....	44.9	82.9	110.2	.....	27.3
Thamesville.....	.....	59.4	67.0	.....	7.6
Tilbury.....	21.2	103.2	38.6	64.6	.....
Tillsonburg.....	186.3	226.2	239.0	.....	13.8
Wallaceburg.....	105.9	128.7	137.6	.....	8.9
Walsingham.....	63.5	35.2	45.8	.....	10.6
Walton.....	24.2	41.6	70.7	.....	29.1

NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1927-1928-1929—Continued

Rural power district	Peak load in horsepower			Change in load 1928-1929	
	Oct., 1927	Oct., 1928	Oct., 1929	Decrease	Increase
Waterdown.....	197.3	241.0	389.3	.....	148.3
Waterford.....	69.7	61.0	75.6	.....	14.6
Welland.....	717.2	970.0	1,218.6	.....	248.6
Woodbridge.....	278.3	356.6	559.8	.....	203.2
Woodstock.....	331.0	395.3	394.3	1.0	.....

NIAGARA SYSTEM—NEW RURAL POWER DISTRICTS

Rural power district	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1929	Decrease	Increase
Alvinston.....	June 13, 1929	0.8	1.0	.....	0.2
Merlin.....	Nov. 1, 1928	17.7	84.1	.....	66.4

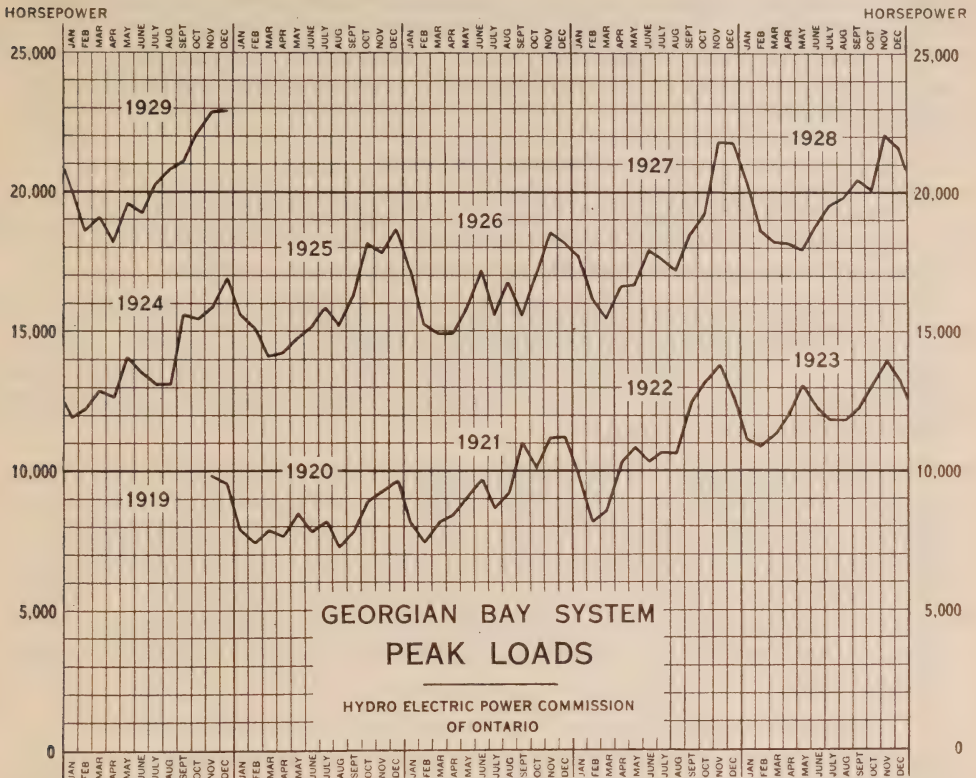
GEORGIAN BAY SYSTEM

The loads on this system have shown very little change from last year, the monthly peaks increasing about three per cent and the average loads decreasing by the same percentage. There has been a normal growth in load throughout most parts of the system but this has been offset as a result of the small quantity of grain handled in the elevators during the past year. The power required by the elevators at Midland, Port McNicoll and Owen Sound, during a normal year, forms a substantial part of the Georgian Bay system load.

There was sufficient river flow and storage-water supply throughout the system until August, but the lack of rainfall and excessive evaporation from this time until the end of the fiscal year caused the storage water to be depleted on all watersheds. To offset this condition, arrangements were made with the Owen Sound Public Utilities Commission for the operation of its steam plant, commencing about the middle of October, 1929, and with the Canadian Pacific Railway Company for the operation of its steam plant at Port McNicoll, commencing the last week in October.

During the year 1929 the Commission purchased the power plants, machinery, water rights and all lands and buildings in connection with the hydraulic power plants at Hanover and Maple Hill. In order to assist in the saving of storage water and to assist on peak load, the Hanover plant was renovated and placed in operation the latter part of September with a full load capacity of about 300 kilowatts.

The two hydraulic plants of the Bala Electric Light and Power Company were taken over by the Commission on April 27, 1929. The combined generating capacity of these two plants is 450 kv-a. The Bala plants and distribution networks are operated as a division of the Georgian Bay system but are not interconnected with the rest of the system.



NOTE:—The Georgian Bay system includes the Severn, Eugenia, Waddells and Muskoka divisions. In the diagram the load for the Muskoka division is not included until November, 1924. Details respecting this load for preceding years are given in earlier Annual Reports. The load of the new division at Bala is not included in above graph, records being incomplete.

A 38,000-volt tie line was constructed between the Muskoka and Waddells divisions to improve service to the Waddells division. This line was ready for service in April, 1929. Power over this line is stepped down to 22,000 volts at the Waddells auto-transformer station for the Waddells division. A 1,500-kv-a. auto-transformer was installed at Waddells power house for this purpose and was placed in service in May, 1929. Trethewey Falls plant, with an installed capacity of 2,000 kv-a., was placed in commercial operation September 29, 1929. This is a remote-controlled plant, situated on the south branch of the Muskoka river above the South Falls and Hanna Chute plants and is controlled from South Falls plant.

A substantial amount of power was purchased from the Orillia Water, Light and Power Commission during September and October, 1929, in order to make the most efficient use of the water flow in the Severn river.

A severe sleet storm on the system on April 1, 1929, caused damage to numerous sections of the lines. The greatest damage was done to the tie line between the Severn and Eugenia divisions, where, between Collingwood and Stayner, seventy-seven poles were broken. Collingwood, which is normally supplied from the Severn division, was supplied from the Eugenia division until

repairs to the lines were carried out. At this time there were also eighteen consecutive poles down on the Wasdells division as well as other odd poles at intervals on both the Severn and Wasdells divisions. Service was resumed with the least possible delay in view of the bad travelling and working conditions at this time of the year.

Severn Division

Peak loads on this division decreased four per cent from last year, while the average loads decreased fourteen per cent. This is accounted for, to some extent, by the reduced demands of the grain elevators.

A new circuit on a separate pole line was constructed from Waubauskene into the Midland district in the autumn of 1928, and was placed in service November 18. This makes the third circuit into the Midland district from Waubauskene, facilitating operation and maintenance, and affording better voltage regulation to this load centre.

Numerous changes to pole lines between Waverley, Elmvale and Barrie were necessary due to road alterations made by the Department of Provincial Highways. Extensive guying of poles was carried out on this division to strengthen the lines against severe storms such as were experienced during the winter and spring of this year, also the usual work of maintenance, insulator testing and replacement received attention. Four new air-break switches were erected on the lines at the south end of the Severn division, replacing switches of older design.

To improve operation at the Big Chute plant a number of changes were made. Braking equipment was installed on all four generating units. New hand-control equipment was installed on the No. 4 unit, and a central oil-pressure and pumping system for the operation of the governors on all units was installed. Extensive painting of the inside of the Big Chute plant and of the equipment was carried out during the year.

Owing to growth of load at Coldwater, the three 40-kv-a. transformers were removed from Coldwater distributing station and were replaced by three 100-kv-a. transformers which were removed from Orangeville distributing station last year.

A new boat house was erected at Waubauskene to replace the one destroyed by high water and storms during the spring period.

A 22,000-volt feeder out of the Collingwood station was placed in service to supply the new elevator substation at Collingwood erected during the year.

Eugenia Division

The peak and average loads on this division have shown an increase of thirteen per cent over last year.

Holland Centre distributing station, with a 10-kv-a., single-phase transformer, was placed in service December 20, 1928. This transformer steps the voltage down from 22,000 to 110 for local distribution.

A bank of three 250-kv-a. transformers was placed in service at Meaford April 28. This bank replaced a three-phase, 300-kv-a. transformer.

The three-phase, 300-kv-a. transformer, which was removed from Meaford, was taken to Holyrood and installed there May 12, replacing a bank of three 50-kv-a. transformers.

The Owen Sound steam plant was operated for part of November and the first week of December, 1928, to help carry the Eugenia division loads. This was made necessary by the failure of one of the transformers in the 25-cycle bank at Mount Forest frequency changer station on November 7, 1928. This transformer was repaired and returned to service December 2, 1928.

During a wind-and-sleet storm, which caused severe whipping of the lines feeding the Owen Sound district, trouble was experienced due to the breaking of insulator ties, heads pulling off insulators and insulators off pins. This trouble occurred in January during the bad travelling conditions. Trouble was also experienced on other lines of the division at this time, but not to such an extent as on the north lines to Owen Sound.

On April 1 the severe sleet storm, which caused excessive damage on the Severn and Wasdells divisions, was also experienced on the Eugenia division, but damage was not so great as on the other divisions. Repairs were made difficult owing to lack of communication, as the Commission's private telephone lines were down and other telephone and telegraph service was entirely disrupted.

A synchronous condenser was installed at Eugenia power house and placed in operation October 23. This unit was installed to improve the facilities for the transmission of peak and off-peak power from the Severn division to the Eugenia division, for conservation of water, and to improve system operation.

The small, 300-kv-a., hydro-electric plant (two 150-kv-a. units), at Hanover, purchased during the year, was overhauled and placed in operation to assist in carrying the division load, on account of the anticipated water shortage at the other plants supplying the system. To meet the increasing demands for power, combined with the poor water conditions existing on the various watersheds, arrangements were made for the operation of the Owen Sound steam plant, starting in October, 1929, and to be operated until relief is experienced by fall rains or spring freshets.

Wasdells Division

The peak load has shown very little increase over last year on this division but the average load has shown an increase of fifteen per cent. The addition during the year of the tie line from Muskoka and the auto-transformer station at Wasdells power house has been an important factor in assuring Wasdells division of continuity of power supply.

During the floods of the past spring, the tail-water was so high at Wasdells power house that for a period of ten days the head-water available was not sufficient to operate the plant. For a further period of two weeks the head was so low that very little power could be generated. During all this period the Wasdells division depended on the supply of power over the Orillia tie line, as the tie line to the Muskoka division was not completed at this time.

Reconstruction of the Commission's lines at various points was made necessary to provide clearance over the new Bell Telephone Company line from Oshawa to North Bay and Sault Ste. Marie.

A large amount of special maintenance work was carried out on the high-tension lines due to interference by road alterations, and extra line guys were installed to strengthen the lines where they are exposed to severe storm conditions.

Muskoka Division

The peak and average loads on this division are practically the same as last year.

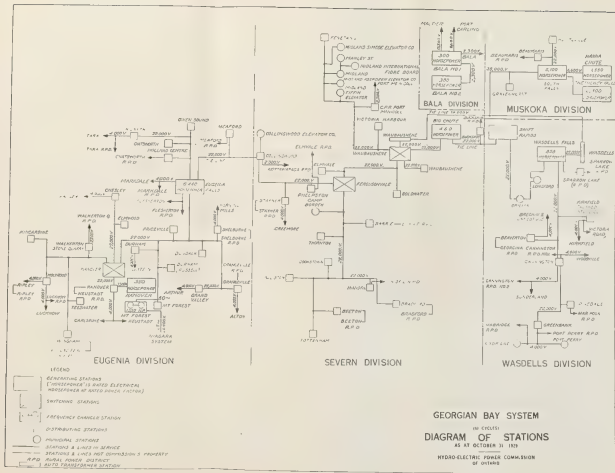
Extreme flood conditions existed on the Muskoka watershed in the spring of 1929. In spite of the fact that lake levels had been lowered in preparation for the freshet, the normal break-up, combined with continuous rains, produced extremely high levels in both Hollow lake and Lake of Bays. Later in the season the loss of storage water used to assist late spring and early summer log-driving operations, and the dry weather experienced from August to the end of October, combined to reduce lake levels and storage water to a point below anything before experienced at this time of the year.

A large number of stumps and dead trees, also refuse of other kinds, was removed from above Hollow Lake storage dam to assist in log-driving and control of storage water. Maintenance work at Hollow Lake dam was also carried out, the metal work being painted and the concrete deck waterproofed. Certain work was carried out at the Minden Bay storage dam to bind the earth fill—grass and shrubbery being planted on the surface.

An operator's cottage was constructed at Hanna Chute plant for the use of the operator stationed permanently at this plant. The Hanna Chute plant was shut down for inspection and repairs in July and it was found that the draft tube had broken away from the base ring of the turbine and was resting on the bottom of the draft-tube chamber. The necessary repairs were made by the Construction department, and entailed the building of a coffer dam to unwater the tailrace. At the same time piers were constructed in the tailrace with guides for stop logs to provide an easy method to unwater the draft-tube chamber. The turbine pit was waterproofed, the turbine adjusted where necessary, and other maintenance work performed.

Due to the fact that a water shortage was anticipated, the new plant at Trethewey falls, about two miles up the river from the Hanna Chute plant, was rushed to completion and put in operation on September 28, 1929, with head water slightly below the intended level. This plant has a 2,000-kv-a., 6,600-volt, three-phase unit installed and is operated by automatic equipment with remote control from the South Falls plant about two and one-quarter miles distant.

In order to arrange an adequate power supply for the Wasdells division of the Georgian Bay system, where the demands had increased above the generating capacity at the Wasdells plant, the 40,000-volt line between South falls and Waubauskene was tapped at a point several miles south of Gravenhurst station and a 40,000-volt line built to the Wasdells power house. This 40,000-volt line was connected to the Wasdells power house 22,000-volt bus through an outdoor auto-transformer station of 1,500-kv-a. capacity, erected adjacent to the plant.



Bala Division

The Bala system of the Bala Electric Light Company was taken over by the Commission in April, 1929, and its operation and service is being adjusted up to the Commission's standard.

It was noted that the machine at the No. 2 power house would not generate up to near its rated capacity. A complete examination was made and it was found that the curb ring or base ring was broken, allowing the lower portion of this ring and draft tube to become displaced. Temporary repairs were made by installing timber bracing and steel supports and by stopping air leaks as much as possible by sealing the upper end of the draft tube. These repairs were effective and the unit afterwards developed power up to nearly its rated capacity. More permanent repairs will be made when conditions permit.

In July the No. 2 unit at No. 1 plant was badly damaged by lightning. Arrangements were made to use the generator which was bought with the Maple Hill plant and had been cleaned up and painted. This generator was installed with its own exciter and after some alterations and adjustments went into service satisfactorily.

The walls of the forebay at No. 1 plant had deteriorated at the water line, and there was considerable leakage. In September after the season's heaviest loads were over, the No. 1 plant was shut down and repairs to this wall were carried out by the Construction department. The turbines at this plant were also examined and adjusted where necessary. They appeared to be in very fair condition for operation.

A small building was erected adjacent to the No. 1 plant to serve as field office for general division business in connection with the operation and maintenance of the plants and distribution system and service to customers.

The lack of satisfactory ventilation at the No. 2 plant was overcome by installing a large roof ventilator and placing panels with louvres in the doors.

The load on this division now taxes the generating capacities of the plants and provision for additional capacity is under consideration.

GEORGIAN BAY SYSTEM—LOADS OF MUNICIPALITIES, 1927-1928-1929

Municipality	Peak load in horsepower			Change in load 1928-1929	
	Oct., 1927	Oct., 1928	Oct., 1929	Decrease	Increase
SEVERN DIVISION					
Alliston.....	175.6	189.0	183.6	5.4	.....
Barrie.....	1,739.9	1,878.5	1,978.4	.....	99.9
Beeton.....	113.9	124.1	117.9	6.2	.....
Bradford.....	215.8	134.0	133.5	0.5	.....
Camp Borden.....	181.0	279.0	300.0	.....	21.0
Coldwater.....	89.8	130.0	274.8	.....	144.8
Collingwood.....	1,174.5	1,190.0	1,613.9	.....	423.9
Cookstown.....	49.6	49.6	48.5	1.1	.....
Creemore.....	92.5	94.3	116.6	.....	22.3
Elmvale.....	175.8	158.7	148.8	9.9	.....

GEORGIAN BAY SYSTEM—LOADS OF MUNICIPALITIES, 1927-1928-1929—Continued

Municipality	Peak load in horsepower			Change in load 1928-1929	
	Oct., 1927	Oct., 1928	Oct., 1929	Decrease	Increase
Midland.....	4,928.1	4,190.3	3,559.0	631.3	.....
Penetang.....	556.3	521.4	587.9	.....	66.5
Port McNicholl.....	77.1	82.4	84.4	.....	2.0
Stayner.....	123.8	123.3	104.0	19.3	.....
Thornton.....	23.6	29.0	26.8	2.2	.....
Tottenham.....	54.4	59.5	70.2	.....	10.7
Victoria Harbour.....	74.4	69.7	73.7	.....	4.0
Waubashene.....	39.5	39.4	37.2	2.2	.....
EUGENIA DIVISION					
Arthur.....	99.2	103.2	116.6	.....	13.4
Carlsruhe and Neustadt.....	64.9	99.2	30.0	69.2	.....
Chatsworth.....	42.9	52.9	49.6	3.3	.....
Chesley.....	382.0	395.4	412.8	.....	17.4
Dundalk.....	109.8	157.3	136.7	20.6	.....
Durham.....	540.9	565.7	583.1	.....	17.4
Elmwood.....	46.2	45.5	44.2	1.3	.....
Flesherton.....	67.9	76.6	82.6	.....	6.0
Grand Valley.....	76.4	107.2	110.7	.....	3.5
Hanover.....	831.0	914.2	960.3	.....	46.1
Holstein.....	11.0	17.7	17.0	0.7	.....
Hornings Mills.....	8.0	8.0	8.0	.....	.....
Kincardine.....	265.4	341.8	423.6	.....	81.8
Lucknow.....	141.3	158.2	197.6	.....	39.4
Markdale.....	121.5	140.2	150.9	.....	10.7
Meaford.....	351.0	333.8	361.9	.....	28.1
Mount Forest.....	268.9	286.8	312.3	.....	25.5
Orangeville.....	386.1	473.5	522.3	.....	48.8
Owen Sound.....	2,405.0	2,776.1	3,311.0	.....	534.9
Paisley.....	98.4	112.6	118.6	.....	6.0
Priceville.....	12.0	11.5	14.2	.....	2.7
Ripley.....	50.4	60.3	52.9	7.4	.....
Shelburne.....	218.4	300.1	198.7	101.4	.....
Tara.....	62.3	57.3	59.3	.....	2.0
Teeswater.....	154.0	142.0	81.7	60.3	.....
Wingham.....	321.7	319.0	422.2	.....	103.2
WASDELLS DIVISION					
Beaverton.....	165.7	197.0	229.2	.....	32.2
Brechin.....	52.3	52.2	50.9	1.3	.....
Cannington.....	123.3	137.5	152.8	.....	15.3
Kirkfield.....	22.1	22.0	33.5	.....	11.5
Port Perry.....	167.9	161.2	171.5	.....	10.3
Sunderland.....	54.3	61.0	53.6	7.4	.....
Uxbridge.....	155.5	189.0	146.2	42.8	.....
Victoria Road.....	10.7	9.7	10.0	.....	0.3
Woodville.....	54.0	51.3	48.0	3.3	.....
MUSKOKA DIVISION					
Gravenhurst.....	422.0	538.8	565.7	.....	26.9
Huntsville.....	1,140.0	1,029.5	965.1	64.4	.....

GEORGIAN BAY SYSTEM—RURAL POWER DISTRICT LOADS, 1927-1928-1929

Rural power district	Peak load in horsepower			Change in load 1928-1929	
	Oct., 1927	Oct., 1928	Oct., 1929	Decrease	Increase
SEVERN DIVISION					
Barrie.....	28.1	38.4	61.8	.....	23.4
Buckskin.....	.....	10.4	17.4	.....	7.0
Elmvale.....	14.7	15.0	14.4	0.6	.....
Innisfil.....	.....	29.5	54.9	.....	25.4
Nottawasaga.....	25.5	28.5	29.6	.....	1.1
Stayner.....	26.8	36.2	43.4	.....	7.2
EUGENIA DIVISION					
Flesherton.....	4.1	4.2	3.8	0.4	.....
Markdale.....	.5	.5	.5	.....	.....
Orangeville.....	17.4	30.0	16.3	13.7	.....
Shelburne.....	3.3	2.8	4.3	.....	1.5
Tara.....	.75	15.0	28.7	.....	13.7
Walkerton.....	1.5	1.5	1.5	.....	.....
WASDELLS DIVISION					
Cannington No. 1.....	13.0	17.0	19.0	.....	2.0
Cannington No. 2.....	23.4	14.7	28.8	.....	14.1
Georgina.....	34.0	33.5	33.5	.....	.....
Mariposa.....	67.0	67.7	101.8	.....	34.1
Port Perry.....	13.0	22.0	64.0	.....	42.0
Sparrow Lake.....	41.5	55.6	56.9	.....	1.3
Uxbridge.....	6.0	8.0	34.4	.....	26.4
MUSKOKA DIVISION					
Beaumaris.....	.....	41.5	50.9	.....	9.4

GEORGIAN BAY SYSTEM—NEW RURAL POWER DISTRICTS, 1927-1928-1929

Rural power district	Date connected	Load in horsepower		Change in load 1928-1929	
		Initial	Oct., 1929	Decrease	Increase
Bradford.....	July 29, 1929	5.6	4.3	1.3	.....
Wroxeter.....	Feb. 27, 1929	4.0	36.2	.....	32.2

ST. LAWRENCE SYSTEM

Operating conditions generally on the St. Lawrence system have been satisfactory throughout the fiscal year. The load showed an increase of six per cent on the peak load for the year, and twenty per cent increase on the average load, which is gratifying. It will be noted from the graph that the loads throughout the entire year varied but slightly from the peak established in the month of November.

As mentioned in the last issue of this Report, the Cedars Rapids Transmission Company was supplying an additional amount of power to this system in excess of the contracted amount. However, during the month of November, 1928, the new 44,000-volt line was completed, extending from a point near Brockville to the high-tension transformer station at Smiths Falls, and power from the Gatineau Power Company became available to this system, thereby enabling the Commission to reduce the power taken from the Cedars Rapids Transmission Company to the contracted amount.

Five system interruptions of short duration were experienced during the months of June, July, August, September and October, owing to the failure of the power supply from the Cedars Rapids Transmission Company.

Telephone communication throughout the system has been greatly improved by the installation of standard telephone protective equipment.

A new 300-kv-a. transformer station was built at Lyn and placed in service in December, 1928, for the purpose of supplying power to the village of Athens and the surrounding territory.

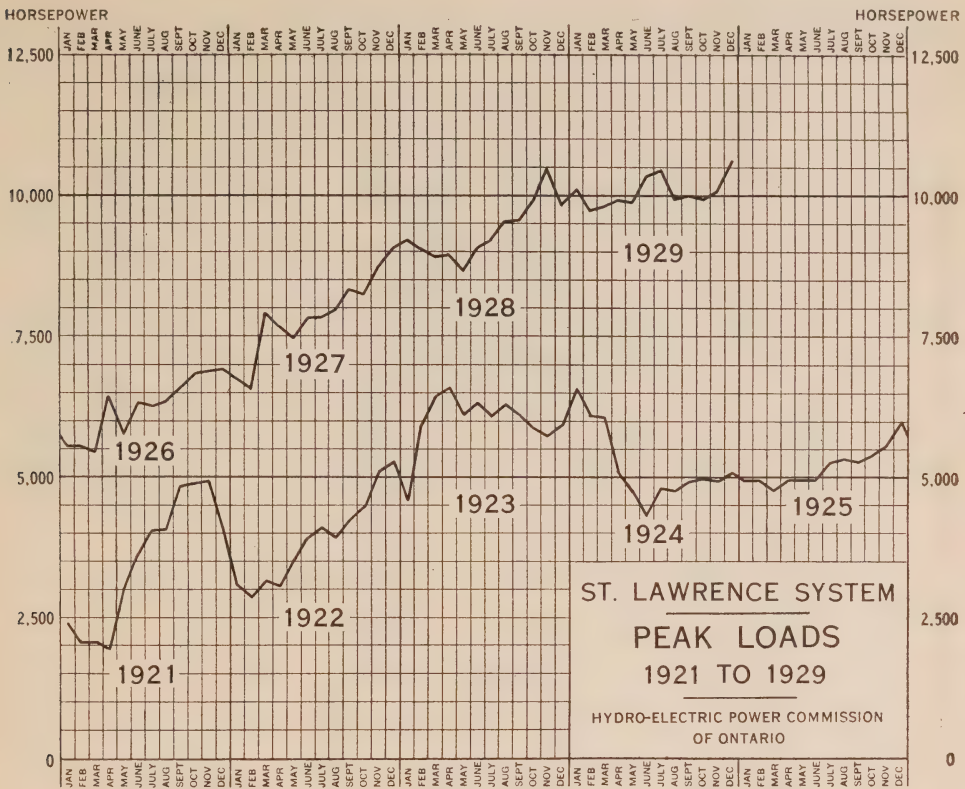
At the Howard Smith Paper Company substation a second additional 750-kv-a. transformer was installed temporarily in March. The load at this station has continued to increase and the transformer is still in service.

At Cornwall transformer station the high-tension oil-breakers and electrolytic lightning-arresters were overhauled. The station site was considerably improved by levelling the land and planting evergreen shrubs.

The usual maintenance of stations and equipment work was carried out. Extensive maintenance work on lines was necessary, chiefly in replacing defective pin-type insulators. A number of poles were charred and treated with solignum to arrest the decay which usually takes place at the ground line.

ST. LAWRENCE SYSTEM—LOADS OF MUNICIPALITIES, 1927-1928-1929

Municipality	Peak load in horsepower			Change in load 1928-1929	
	Oct., 1927	Oct., 1928	Oct., 1929	Decrease	Increase
Alexandria.....	248.0	232.1	214.7	17.4	.....
Apple Hill.....	30.8	30.0	28.0	2.0	.....
Brockville.....	1,428.0	1,732.9	1,954.5	.....	221.6
Chesterville.....	268.6	248.0	167.5	80.5	.....
Finch.....	.....	30.5	38.1	.....	7.6
Lancaster.....	25.1	37.6	44.9	.....	7.3
Martintown.....	18.1	17.5	25.2	.....	7.7
Maxville.....	48.0	50.0	52.2	.....	2.2
Prescott.....	505.6	570.6	682.7	.....	112.1
Russell.....	38.9	61.5	50.2	11.3	.....
Williamsburg.....	31.5	37.4	35.3	2.1	.....
Winchester.....	172.9	182.3	198.4	.....	16.1

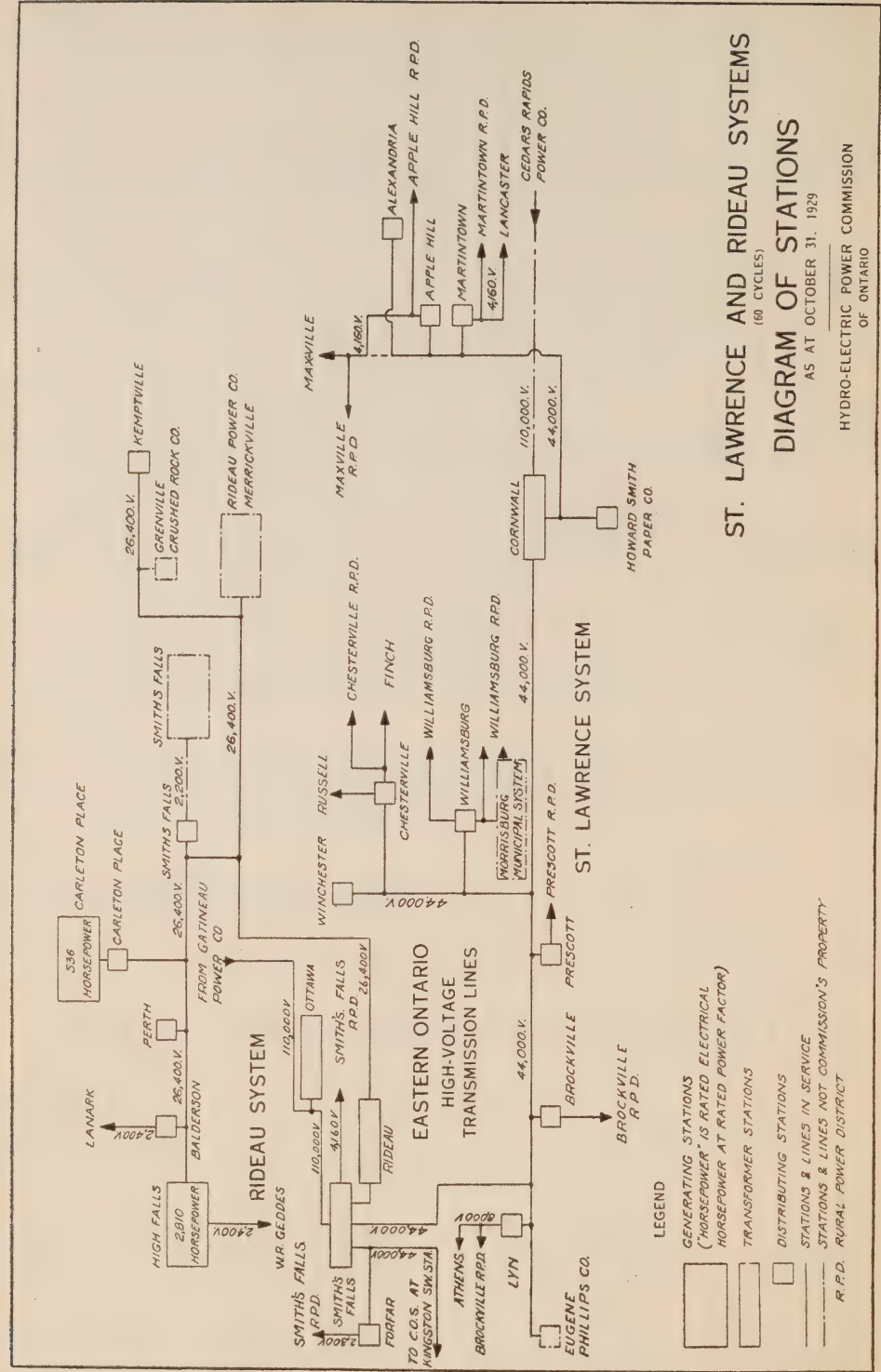


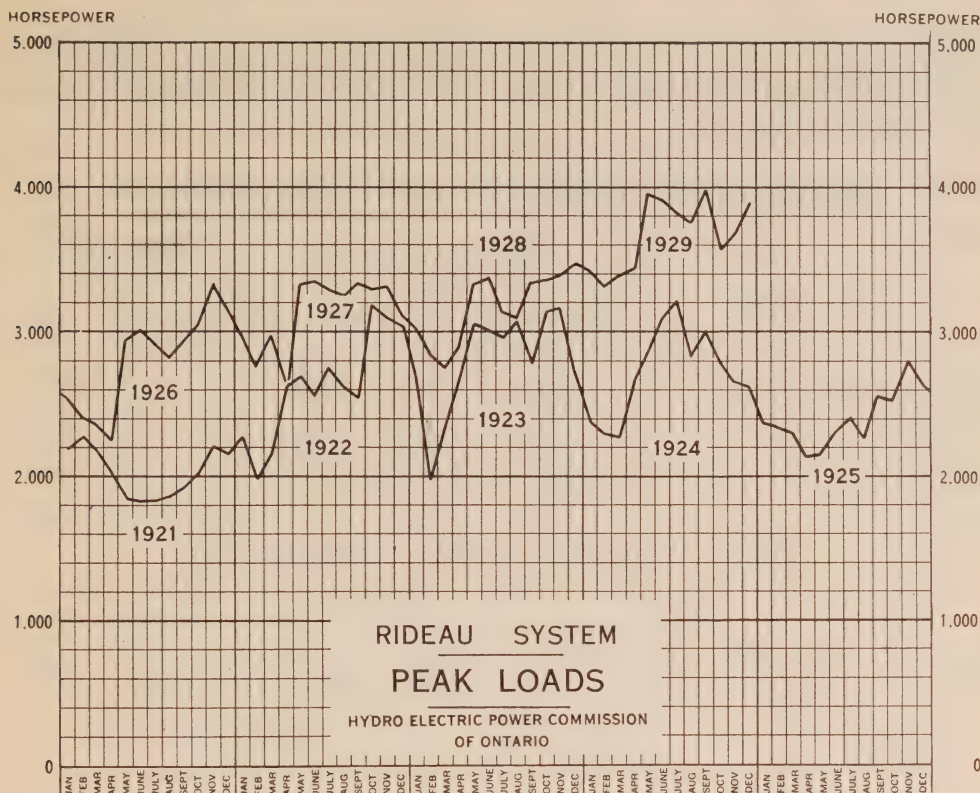
ST. LAWRENCE SYSTEM—NEW MUNICIPALITIES

Municipality	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1929	Decrease	Increase
Athens.....	Dec. 21, 1928	32.1	70.7	.....	38.6

ST. LAWRENCE SYSTEM—RURAL POWER DISTRICTS, 1927-1928-1929

Rural power district	Peak load in horsepower			Change in load 1928-1929	
	Oct., 1927	Oct., 1928	Oct., 1929	Decrease	Increase
Apple Hill.....	28.5	22.0	28.6	.....	6.6
Brockville.....	46.5	47.2	59.2	.....	12.0
Chesterville.....	31.5	51.3	82.2	.....	30.9
Martintown.....	30.5	28.2	42.2	.....	14.0
Maxville.....	.....	.7	.7	.....	.....
Prescott.....	46.9	56.7	69.0	.....	12.3
Williamsburg.....	.....	2.0	8.4	.....	6.4





RIDEAU SYSTEM

During the past fiscal year the demand for power on the Rideau system has shown a marked increase, both on peak and average loads, amounting to approximately 20 per cent. Water conditions during the year have been somewhat unfavourable for power development. This condition, together with the loss by fire of the Rideau Power Company generating station at Merrickville during the month of October, 1928, necessitated augmenting the system power supply. Accordingly, a temporary station was built at Smiths Falls immediately adjacent to the new high-tension transformer station and a 26,400-volt line extended from this station and tapped into the main line of the Rideau system about two miles from Smiths Falls, thereby making available to the Rideau system a supply of power from the Gatineau Power Company. The Rideau Power Company plant was rebuilt and power was again supplied by it to the system in June.

The Commission's generating station at Carleton Place was operated to advantage on several occasions during peak-load periods. At Kemptville the 150-kv-a. transformer was replaced with a 300-kv-a. transformer to meet the increasing load demand. At Merrickville metering equipment was installed, replacing that which was destroyed by fire in October, 1928.

The usual routine work in connection with the maintenance of stations and equipment was carried out. A considerable amount of line maintenance

work was found necessary. About forty miles of poles were charred and treated with solignum. In many instances the decay was so far advanced that it was necessary to stub the poles. A number of the original 26,000-volt pin-type insulators were replaced.

RIDEAU SYSTEM—LOADS OF MUNICIPALITIES, 1927-1928-1929

Municipality	Peak load in horsepower			Change in load 1928-1929	
	Oct., 1927	Oct., 1928	Oct., 1929	Decrease	Increase
Carleton Place.....	642.0	749.3	879.9	.....	130.6
Kemptville.....	183.3	174.9	217.7	.....	42.8
Lanark.....	43.9	49.8	56.0	.....	6.2
Perth.....	660.8	725.2	774.8	.....	49.6
Smiths Falls.....	1,076.8	1,292.2	1,410.2	.....	118.0

RIDEAU SYSTEM—NEW RURAL POWER DISTRICT

Rural power district	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1929	Decrease	Increase
Smiths Falls.....	May 3, 1929	2.0	76	.....	74.0

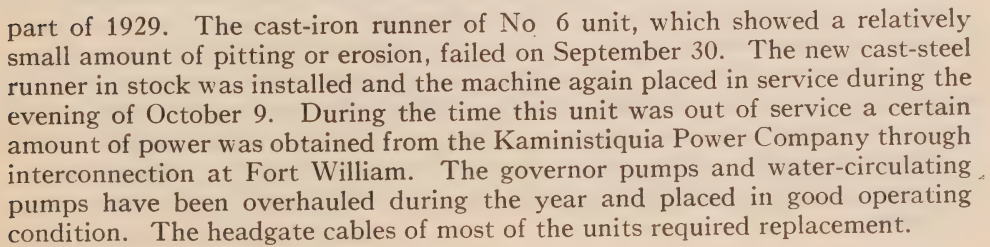
THUNDER BAY SYSTEM

The load on the Thunder Bay system has shown a considerable increase for this year over the load carried during the preceding year, the increase in the average load amounting to over 46 per cent. Due to the extension of the ground-wood section and the placing in service of two large paper machines in the Great Lakes Paper Company mill at Fort William, the system load has been maintained at a very constant value from July onward. This load is approaching the maximum capacity obtainable from the generating plant at Cameron falls. The Nipigon Corporation pulp mill at Nipigon has not been operating during the year.

A slight change in the 110,000-volt lines occurred during the year when about half a mile of single-circuit steel-tower line leading to the new substation of the Great Lakes Paper Company was connected in service, thus permitting an equivalent section of wood-pole circuit to the original substation to be removed from service.

No new equipment was placed in operating service in the generating station or in any of the transformer stations.

The hydraulic maintenance work on No. 4 unit mentioned in last year's Report was completed by the end of November, 1928. A new guide bearing was fitted to the turbine on No. 2 unit, and other slight repairs were made while this unit was shut down for mechanical work on the generator during the early



A certain amount of apparent slackness in the guide bearings of the generator on No. 2 unit indicated the desirability of dismantling this generator early in 1929. It was then found advisable to redesign the thrust collar support. The shaft of this generator was then removed from the rotor and returned to the factory where the shaft was straightened and a new type of thrust collar fitted. The unit has been operating very satisfactorily since it was returned to service April 23, 1929.

The 12,000-volt breakers at Cameron Falls generating station have been inspected and overhauled during the year. The failure of a bushing on one of the 110,000-volt oil breakers at Cameron falls caused one total interruption to all system customers. The only other total interruption was caused by the operator clearing the lines manually on account of a very severe system surge during a lightning storm.

The service obtained from the transmission lines during the year was again excellent. No interruption to any customer resulted from any trouble on the main lines from the generating station to Port Arthur, although Fort William and the Great Lakes Paper Company, which are supplied by single lines, each had one or more interruptions. A considerable number of side guys were added to the poles of the wood-pole line during the year and this line is now practically completely guyed. Treating of the poles at the ground line was again carried on during suitable weather this year, as this treatment gives promise of extending the life of the poles. Brush was cut along certain sections of the right-of-way.

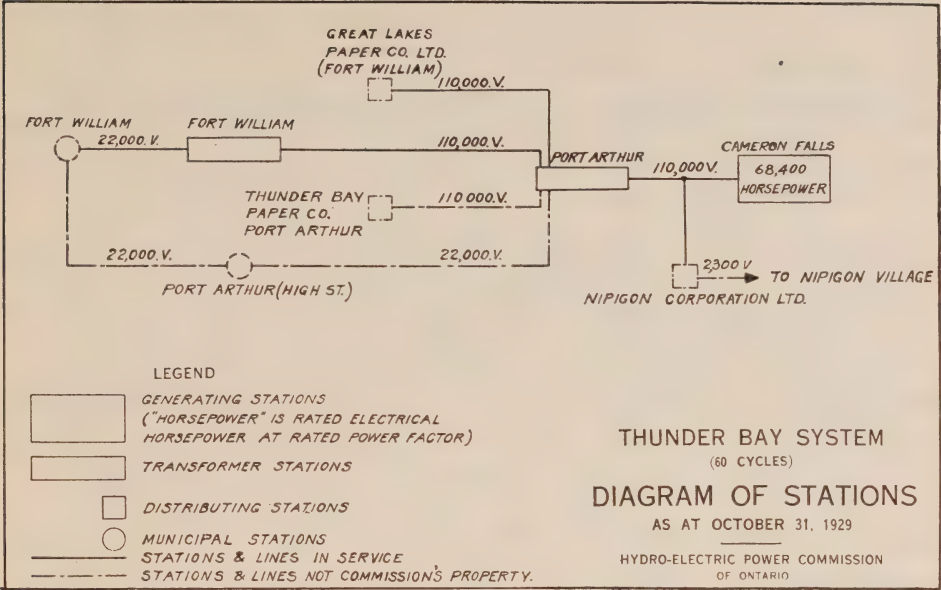
The Port Arthur transformer station has passed another year with no failures of major equipment. All oil breakers have been inspected and overhauled. Correct operation evidently has been obtained from all relays and associated breakers during the year.

The Fort William transformer station has also operated continuously with no failures of equipment. Slight mechanical trouble in one 22,000-volt breaker resulted in an interruption to this station, but careful readjustment and frequent inspection should prevent recurrence of such trouble. All the breaker equipment at this station has been inspected and overhauled.

The precipitation in the watershed supplying this system has been relatively light during the year, and there has been no water spilled (wasted) over the power house dam. The heavy load on the system has required a rather heavy flow in the river.

Radio Communication

The two short-wave experimental radio stations at Cameron falls and Toronto have been in service all year, with the exception of January and part of February due to lack of an operator at Cameron falls. Communication between the two stations was fairly reliable throughout the year except during the months of February and March, when atmospheric conditions were very bad. In no other month were there more than two days on which satisfactory communication was not secured. No special maintenance work was required on the equipment at either end during the year. The defective armature referred to in last year's Report has been repaired, of course, and replaced in operation with satisfactory results. Some slight changes have been made in the antenna system at Toronto, which have resulted in increased efficiency of transmission of signals.



THUNDER BAY SYSTEM—LOADS OF MUNICIPALITIES, 1927-1928-1929

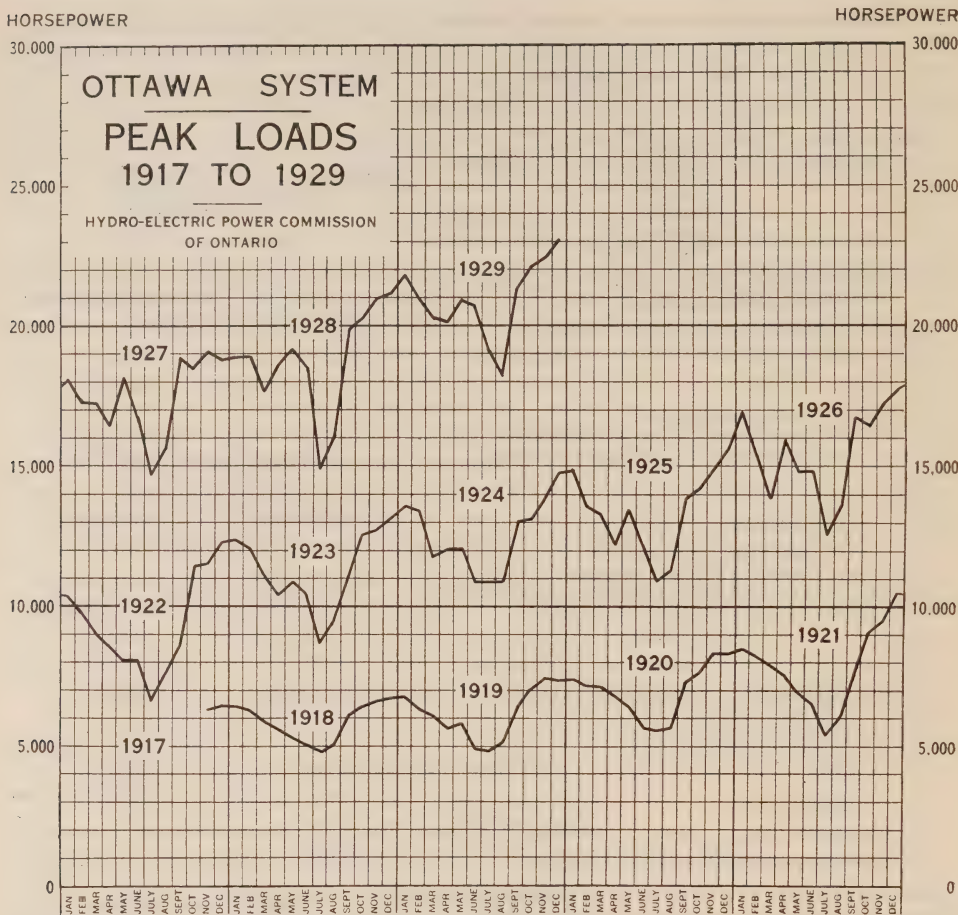
Municipality	Peak load in horsepower			Change in load 1928-1929	
	Oct., 1927	Oct., 1928	Oct., 1929	Decrease	Increase
Fort William.....	8,635.0	10,556.3	9,966.5	589.8	.....
Nipigon Township.....	48.2	56.2	57.6	.....	1.4
Port Arthur.....	32,392.7	27,839.1	41,863.2	.....	14,024.1

OTTAWA SYSTEM

From an operating point of view, conditions on the Ottawa system have been uniformly satisfactory throughout the year. The demand for power both in peak and average load has again shown a substantial increase and compares very favourably with the increase in previous years.

Owing to the increasing demand for power in November, 1928, the system capacity was augmented by a supply of power from the Gatineau Power Company. This power was supplied at 11,000 volts until such time as the new 110,000-volt station is completed.

In order to meet the requirements of the Nepean rural power district, the three 75-kv-a. transformers at the Carlington distributing station were replaced by three 200-kv-a. transformers.



OTTAWA SYSTEM—LOADS OF MUNICIPALITIES, 1927-1928-1929

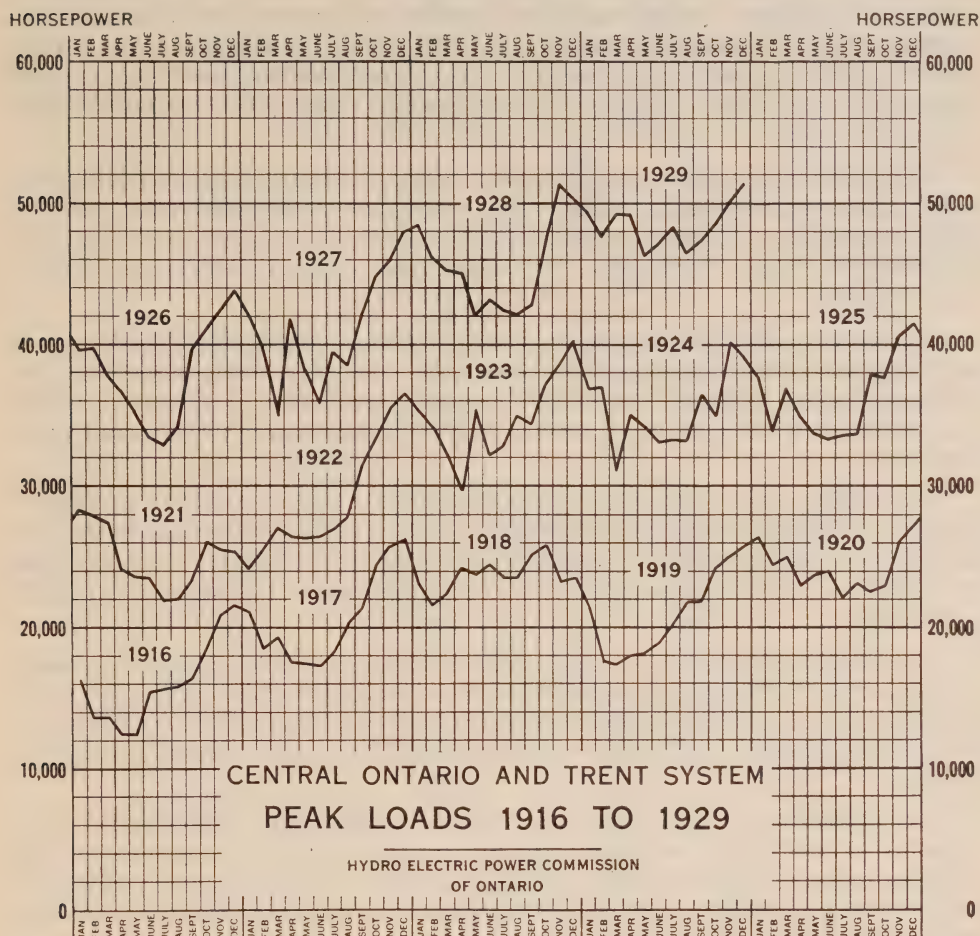
Municipality	Peak load in horsepower			Change in load 1928-1929	
	Oct., 1927	Oct., 1928	Oct., 1929	Decrease	Increase
Ottawa.....	18,480	20,241	22,079	.....	1,838

NOTE.—Nepean rural power district and Richmond included in Ottawa load to the extent of 295 horsepower for October, 1927, 282 horsepower for October, 1928, and 375.3 horsepower for October, 1929.

CENTRAL ONTARIO AND TRENT SYSTEM

During the past fiscal year, the demand for power on the Central Ontario and Trent system has again shown the usual annual increase. While the load was at all times within the limits of the installed generator capacity, trouble was on several occasions experienced due to very poor stream flow conditions which

restricted the normal output of several of the generating stations and necessitated the purchase of additional power.



The outstanding development of the year was the placing in service of the 44,000-volt connection to the high-tension transformer station at Smiths Falls on November 16, 1928, making available to this system power from the Gatineau Power Company. During the months of August and September the Gatineau power supply became decidedly more important, due to the very limited stream flow in the Trent river, and the original contracted amount of 6,000 horsepower had to be increased by increments of 2,000 horsepower until a demand of 12,000 horsepower was reached by September 12. Load reductions became necessary on several occasions in August and September during periods of most serious low-flow conditions. These, however, were of comparatively short duration.

The new telephone circuit from Belleville to Kingston was completed during the month of November. This, together with the newly-constructed telephone lines which are placed on the power line structures extending between Kingston, Smiths Falls and the Gatineau Power Company generating stations on the

Gatineau river, is of great value in load despatching and system operating. A decided improvement to our standard telephone protective equipment has been made by replacing the fuses with a low-energy type of relay which is automatically energized during periods of trouble and grounds both sides of the telephone line. Previously, considerable delay and inconvenience was experienced following power surges owing to the fuses blowing, resulting in some instances in extended delays in restoring power supply after an interruption to service.

The new high-tension line extending between Smiths Falls and Kingston, while it is now operating at 44,000 volts, was designed and constructed for ultimate operation at 110,000 volts. This line terminates in the new out-door switching station at Kingston, at which point the two systems may be synchronized.

At several of the transformer stations additional transformer capacity was added to meet the increasing power demand. The usual work connected with the maintenance of stations and buildings was carried out. At several of the plants turbines and governors were inspected and defective or damaged parts replaced.

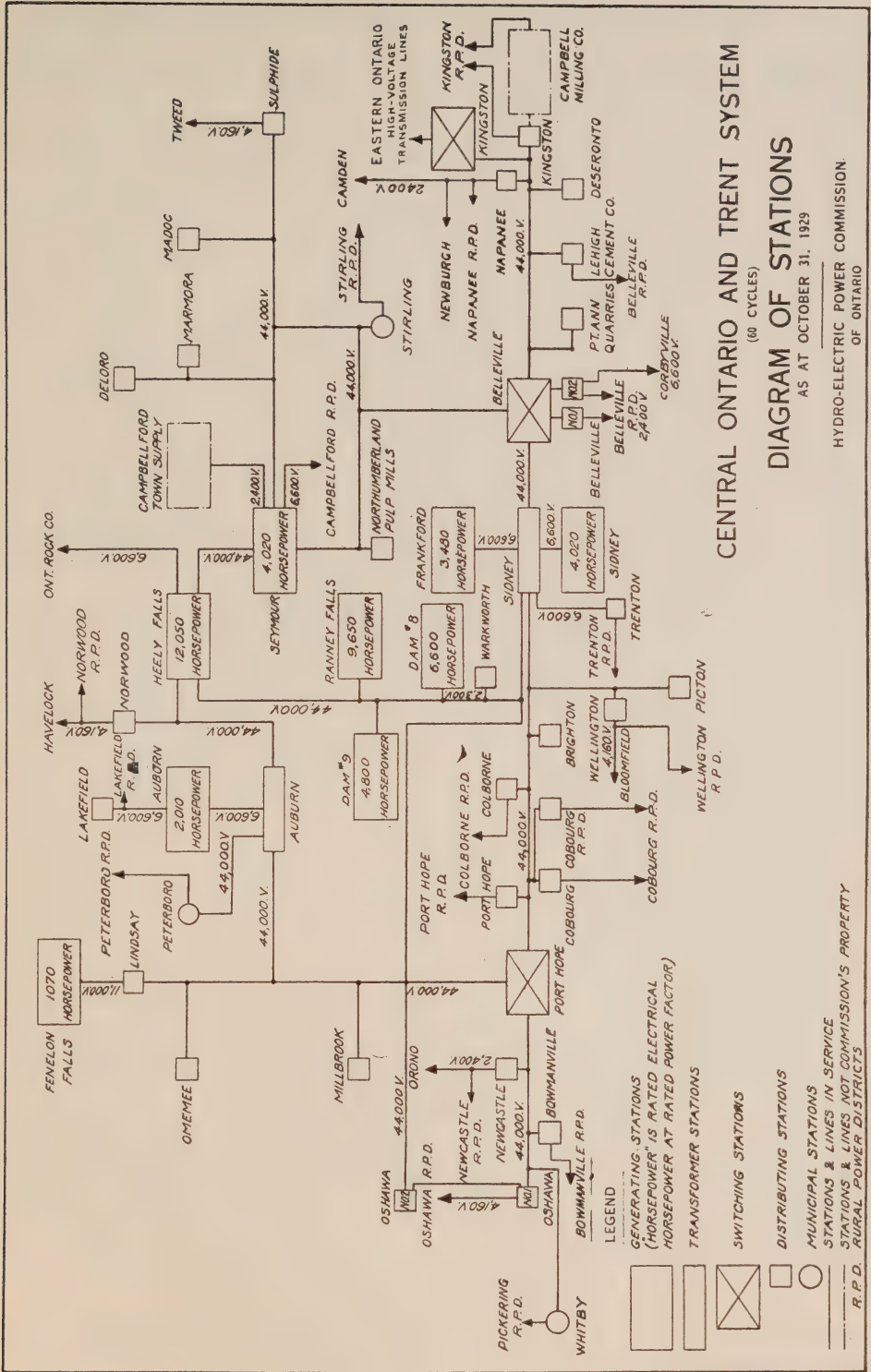
At Sidney, plant No. 2, no extensive maintenance work was necessary. A new ball-thrust bearing was installed on the turbine exciter unit, and the armature of this machine rewound. The floors of the power house and the transformer station were painted. The high-tension oil-breakers were all overhauled.

At Frankford, plant No. 5, the turbines and governors were all overhauled. A number of broken gates had to be replaced in each turbine. The head and tail-race gates were scraped and painted. Extensive repairs had to be made to the tail-race diversion wall which was dangerously undermined for a considerable length.

At Meyersburg, plant No. 8, all three turbines were unwatered and a quantity of driftwood removed from the turbine pits. All high-tension oil-breakers were overhauled and painted, two defective 44,000-volt oil-breaker bushings being replaced. The out-door transformers and all the steel structures were painted.

At Hague's Reach, plant No. 9, some trouble was experienced due to a large amount of driftwood accumulating in the forebay, and it was found necessary on three occasions to clean out the forebay and racks. All turbines were unwatered and a quantity of driftwood and debris removed from the wheel pits. The runner of one turbine was badly eroded, but satisfactory repairs were made by welding. The speed ring of the same unit had to be replaced. Special pressure-switches were installed on all governors for the purpose of keeping the motor-driven pumps in operation after the machines have been cut out, thereby maintaining a sufficiently high oil pressure for operating the brakes, which are automatically applied. All high-tension oil-breakers were overhauled and one defective high-tension bushing was replaced. The out-door oil-breakers, transformers and all steel structures were painted.

It will be recalled from previous issues of this Report that the above two plants are of the automatic supervisory remote-controlled type, and it may be of interest to state that these plants have operated very satisfactorily.



CENTRAL ONTARIO AND TRENT SYSTEM
(60 CYCLES)

DIAGRAM OF STATIONS

AS AT OCTOBER 31, 1929

HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

At Ranney Falls, plant No. 10, one turbine was unwatered on two occasions for the purpose of removing driftwood and debris from the wheel-pit. Seven broken gate-levers were replaced in the turbine. All high-tension and low-tension oil-breakers, the high-tension lightning-arresters, and the two voltage-regulators were overhauled.

At Seymour, plant No. 11, the forebay was unwatered and the racks cleaned. All governors were thoroughly overhauled, new connecting links, pins and screws being installed on the connections to the fly-balls, new spindles and steel bushings installed on the fly-balls, and the fly-ball heads balanced. A broken pedestal was replaced on one of the governors. All turbines were unwatered and thoroughly inspected. On one turbine it was necessary to rebabbit the lower guide-bearing and adjust the centre guide-bearing. All high-tension oil-breakers were overhauled. One of the generators was thoroughly cleaned and painted and a defective coil was replaced. The voltage-regulator was overhauled. Trouble was experienced with the three old 1,125-kv-a., three-phase transformers, and they were replaced with two 3,000-kv-a., three-phase transformers. A new oil-storage tank was installed in the basement of the power house.

At Heely Falls, plant No. 14, two of the turbines were unwatered and thoroughly inspected. The turbine glands and gate shafts of one unit were repacked. Two of the governors were overhauled and gate-limiting devices were added. The voltage-regulator and high- and low-tension oil-breakers were overhauled. One defective coil was replaced in each of two generators. Extensive repairs were made to the outside walls of the power house.

At Auburn, plant No. 18, the forebay was unwatered and the racks cleaned. Twelve new stop-logs were framed for use in the dam and a set of the old stop-logs reframed for use in the timber slide. All turbines were unwatered and inspection showed that a number of gates had to be replaced in each turbine. One turbine was thoroughly overhauled, all defective gate arms, links, pins and connecting rods being replaced. All the governors were overhauled. One generator failed during a severe electrical storm, two defective coils having to be replaced. A second generator failed during normal operating conditions and it was found that twenty-three defective coils had to be replaced.

At Auburn switching tower the high-tension oil-breakers were overhauled, one defective high-tension bushing being replaced. The out-door steel structure and oil-breakers were painted.

At the Oshawa condenser station a new 5,000-kv-a. synchronous condenser and voltage-regulator were installed.

At Oshawa transformer station one of the 3,000-kv-a. transformers failed in service and was returned to the manufacturer for repairs. This transformer, following repairs, was again placed in service on September 4. The control-panels for the two high-tension oil-breakers were moved from upstairs down into the control room. The high-tension oil-breakers were overhauled.

At Kingston transformer station one of the 750-kv-a. transformers was replaced on October 20 by a 1,500-kv-a. transformer to meet the increasing load demand. The dry-cell tripping-battery was replaced with a 24-volt storage-battery with trickle charger.

At Napanee transformer station one of the 300-kv-a. transformers was replaced with a 750-kv-a. transformer. Reactors were installed in the secondaries of the other two 300-kv-a. transformers to insure the proper distribution of load. A 24-volt storage-battery with trickle charger was installed. The high-tension lightning-arresters were overhauled.

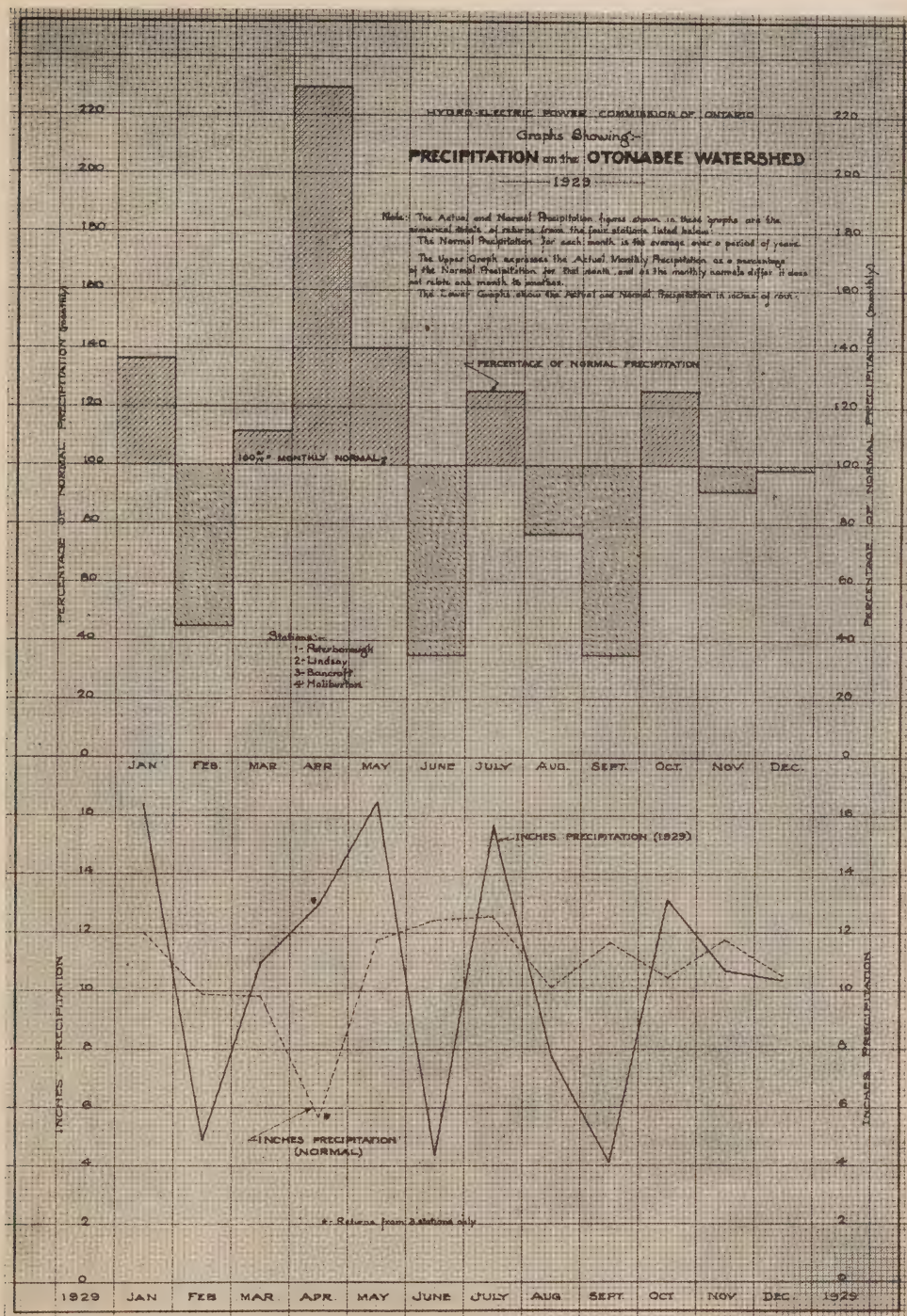


PLATE A—PRECIPITATION DATA

The upper graph represents the estimated actual monthly precipitation on the Otonabee watershed expressed as a percentage of the normal precipitation.

The estimate is based upon the actual and normal returns of the Meteorological Service for Peterboro, Lindsay, Bancroft and Haliburton.

Although the numerical values differ from month to month the normal precipitation is taken as 100 per cent., hence the solidly hatched areas represent the amount by which the precipitation exceeded the average while the dotted hatched area represents in a similar manner the deficiencies.

The lower graph shows the actual and the normal precipitation in inches of rain.

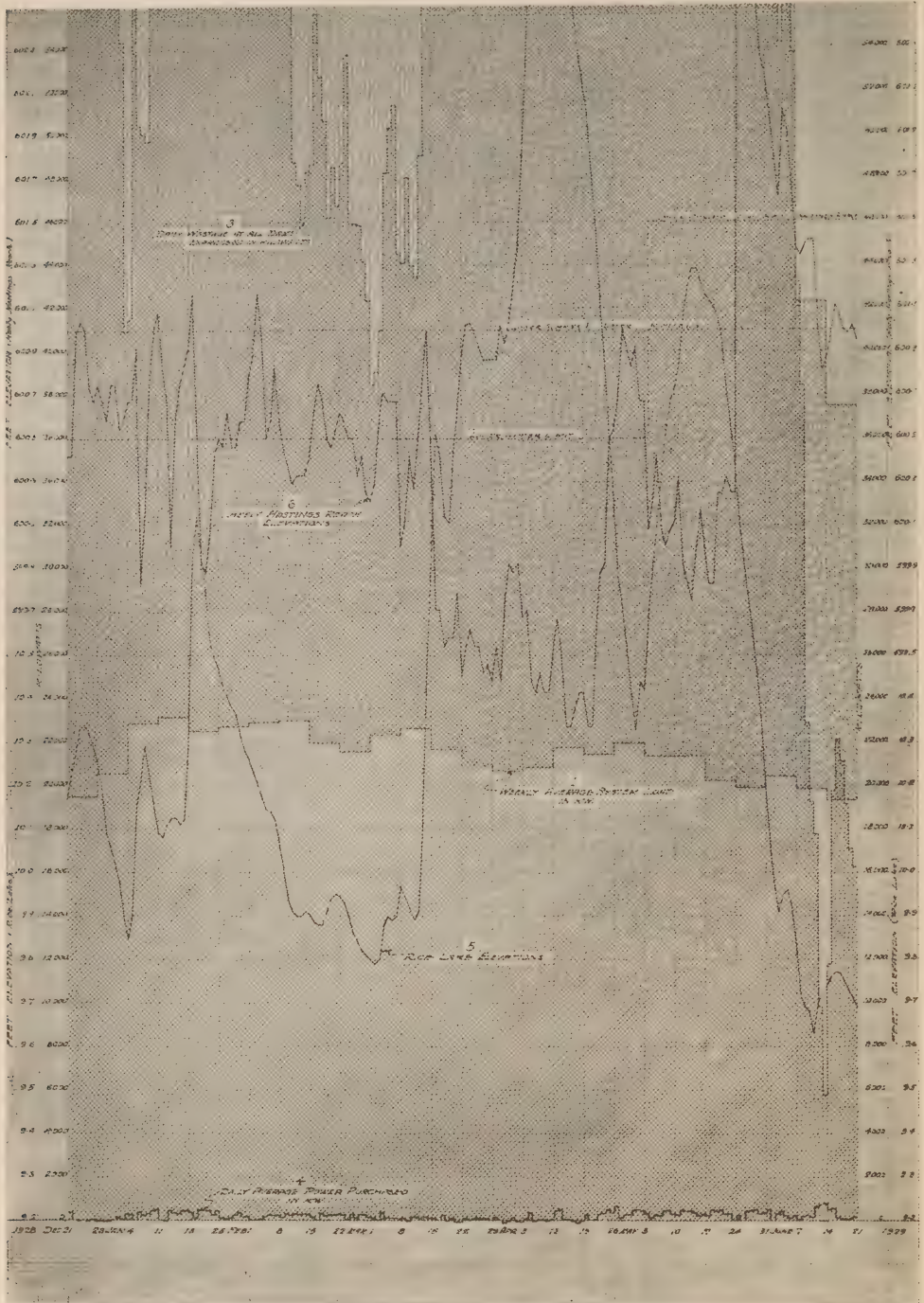


PLATE BI—GENERAL OPERATING DATA

December 22, 1928, to June 21, 1929

GRAPH No. 1—System average weekly load in kilowatts.

GRAPH No. 1a—Weekly average kilowatts supplied by plants on Trent river, including purchased power, but excluding power obtained from the Gatineau Power Co.

GRAPH No. 2—Weekly average power equivalent of total flow at all dams. This equals the weekly average system load plus the power equivalent of the weekly average wastage of water at all plants from which the Commission derives its regular supply. The wastage is shown by the dotted hatched area between graphs 2 and 1.

(Description continued on opposite page.)

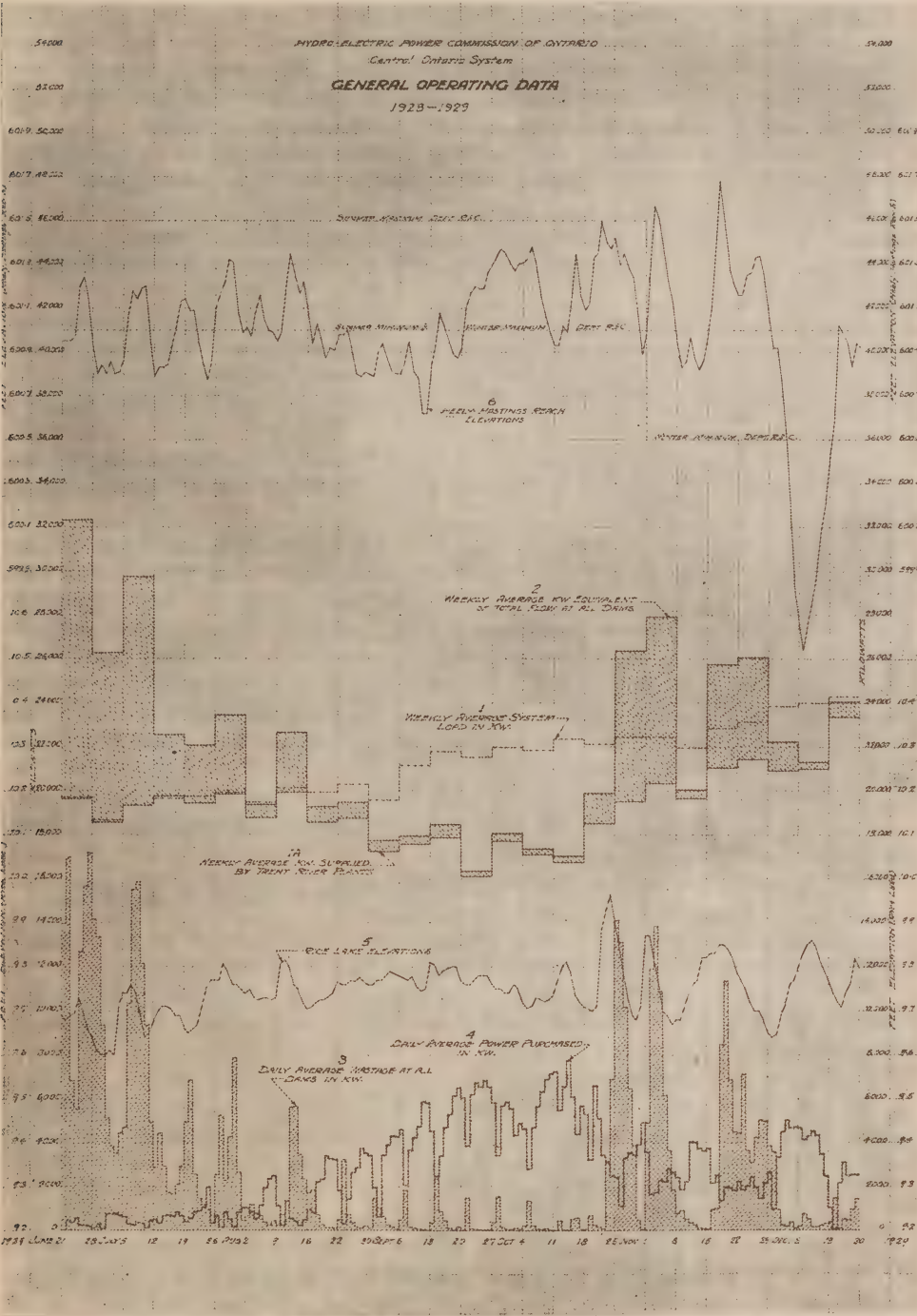


PLATE B2—GENERAL OPERATING DATA
June 21, 1929, to December 29, 1929

GRAPH No. 3—Average daily wastage at all plants expressed in kilowatts. In the weekly aggregate the area under this graph equals the wastage, represented by the hatched area between graphs 2 and 1 and shows the daily distribution on this weekly wastage.
GRAPH No. 4—Average daily power purchased in kilowatts.
GRAPH No. 5—Midnight elevation of Rice Lake.
GRAPH No. 6—Midnight elevation of Heely-Hastings reach.

At Belleville switching station one of the old rotor-type disconnecting switches was replaced by a new double-break disconnecting-switch. New control-cables were installed between the switchboard and the high-tension bus-structure. Synchronizing equipment was installed. Ammeters were installed on the Belleville tap. All the high-tension oil-breakers were thoroughly overhauled.

At Port Hope switching station the dry-cell battery was replaced by a storage-battery and trickle charger. On three of the high-tension lines directional residual-type relays were added. On the fourth high-tension line the induction-type overload relays were replaced by unidirectional relays. A third 44,000-volt potential transformer was installed. All high-tension oil-breakers were overhauled.

At Newcastle transformer station the 100-kv-a., single-phase transformer was replaced with a 300k-v-a., three-phase transformer. The station was changed over to three-phase, 44,000 volts on the high-tension side and 4,160 volts on the low-tension side. An additional feeder-panel complete with metering equipment was added.

At Picton transformer station, one of the 300-kv-a. transformers was replaced with a 750-kv-a. transformer. A reactor was installed in the secondaries of the remaining 300-kv-a. transformer.

At Port Hope transformer station the 300-kv-a. transformer was replaced by a 750-kv-a. transformer. The station was changed over from 2,400 volts delta to 4,160 volts star. Extensive repairs were made to the low-tension equipment following a burn-out behind the switchboard. The 44,000-volt series mechanical trip-relays were removed and a 24-volt trip-coil was installed and connected to operate from the transformer relays. The tripping potential on the transformer and feeder relays was changed from 110 volts alternating current to 24 volts direct current. The high-tension oil-breaker and the high-tension lightning-arresters were overhauled.

At Whitby municipal station a second 750-kv-a. transformer was installed.

At Cobourg an out-door, 300-kv-a. transformer station was built to supply power for the Cobourg rural power district.

At Norwood a second 300-kv-a. transformer was added to meet the increasing load demand.

A temporary 750-kv-a. transformer station was built near the Canada Cement Company plant at Lakefield to supply power to this company.

At Lehigh transformer station the high-tension oil-breakers and high-tension lightning-arresters were overhauled. Extensive repairs were made to the station roof.

At Marmora transformer station a second 50-kv-a. transformer was installed.

At Lindsay transformer station one of the 750-kv-a. transformers failed in service and had to be completely rewound. A second 750-kv-a. transformer failed in service and the defective coils on one leg were replaced. A new water-cooling coil was also installed in this transformer.

An extensive programme of line maintenance was carried out during the year. Preservation of pole butts was actively carried out, 4,300 poles being charred at the ground line and then treated with solignum. A considerable number of poles were stubbed on the different line sections. During the year 23,500 pin-type insulators were inspected, 1,200 found defective being replaced; 4,300 suspension-type insulators were inspected and 450 defective units were replaced.

Due to the very heavy rains in the spring and early summer, followed by high wind storms, a large amount of work was necessary to straighten leaning

poles at different points on the system. The usual amount of tree-trimming was done.

The Belleville machine and meter repair shop has again been very active throughout the year. General repair and production work has been carried out for local systems, private companies and the various sections of the Operating department. Assistance has been rendered throughout the year to various municipalities in connection with technical problems in the field.

Load and Water Conditions, Trent River Watershed

Following several years when water conditions were on the whole more favourable than usual, the latter part of the summer of 1929 shows a decided change, as will be observed from the precipitation graph, Plate A. During the winter months a comparatively heavy snowfall had accumulated, which remained without being reduced by thaws until late in March. Mild weather early in April, accompanied by rainfall in excess of twice normal, caused a heavy freshet flow in this month which practically equalled the record flows in the spring freshets of the years 1922 and 1928. Rainfall remained above normal until the month of June, when it fell to about 35 per cent of normal. Heavy rainfall in the early part of July raised the total for this month to above normal. These heavy rains, however, came at a time when the storage was about at a maximum and consequently ran off and were of no great benefit. During the latter part of the month of July and the months of August and September, precipitation was considerably below normal. This low precipitation, together with increased evaporation, created a condition decidedly unfavourable for power development.

Due to the above causes, the supply of power available from the generating stations on the Trent river became inadequate and it was necessary to purchase additional power from the Gatineau Power Company to meet the demand.

It might be added that during the month of December, 1928, trouble was experienced at several of the generating stations due to severe frazil and anchor ice. No serious load reductions were necessary on this account.

CENTRAL ONTARIO AND TRENT SYSTEM—LOADS OF MUNICIPALITIES, 1927-1928-1929

Municipality	Peak load in horsepower			Change in load 1928-1929	
	Oct., 1927	Oct., 1928	Oct., 1929	Decrease	Increase
Belleville.....	3,071.8	3,121.1	3,551.5	.....	430.4
Bloomfield.....	139.4	114.6	101.2	13.4	.....
Bowmanville.....	1,538.0	1,792.2	1,724.4	67.8	.....
Brighton.....	210.0	242.6	265.4	.....	22.8
Cobourg.....	1,204.8	1,267.7	1,361.7	.....	94.0
Colborne.....	141.0	152.4	168.9	.....	16.5
Deseronto.....	210.0	164.9	152.8	12.1	.....
Havelock.....	222.0	250.6	220.9	29.7	.....
Kingston.....	3,963.8	3,912.5	4,221.8	.....	309.3
Lakefield.....	151.6	182.9	192.3	.....	9.4
Lindsay.....	1,474.5	1,678.3	1,522.7	155.6	.....
Madoc.....	149.4	135.0	142.6	.....	7.6
Marmora.....	96.5	92.7	86.6	6.1	.....
Millbrook.....	62.7	64.3	68.6	.....	4.3
Napanee.....	858.0	931.7	957.5	.....	25.8

**CENTRAL ONTARIO AND TRENT SYSTEM—LOADS OF MUNICIPALITIES,
1927-1928-1929—Continued**

Municipality	Peak load in horsepower			Change in load 1928-1929	
	Oct., 1927	Oct., 1928	Oct., 1929	Decrease	Increase
Newburg.....	332.4	396.8	236.0	160.8	.....
Newcastle.....	74.9	71.1	72.9	.....	1.8
Horwood.....	147.5	124.8	142.5	.....	17.7
Omeme.....	56.0	50.1	72.9	.....	22.8
Orono.....	53.3	47.3	165.7	.....	118.4
Oshawa.....	6,933.0	8,659.5	8,880.7	.....	221.2
Peterborough.....	5,467.8	6,097.0	6,271.0	.....	174.0
Picton.....	640.7	737.2	892.7	.....	155.5
Port Hope.....	752.0	1,112.6	1,207.7	.....	95.1
Stirling.....	253.0	261.4	282.8	.....	21.4
Trenton.....	1,654.8	1,906.9	2,610.6	.....	703.7
Tweed.....	182.0	209.1	214.5	.....	5.4
Warkworth.....	53.6	54.9	57.6	.....	2.7
Wellington.....	146.1	133.8	144.0	.....	10.2
Whitby.....	860.6	1,008.8	958.5	42.3	.....

**CENTRAL ONTARIO AND TRENT SYSTEM—RURAL POWER DISTRICTS,
1927-1928-1929**

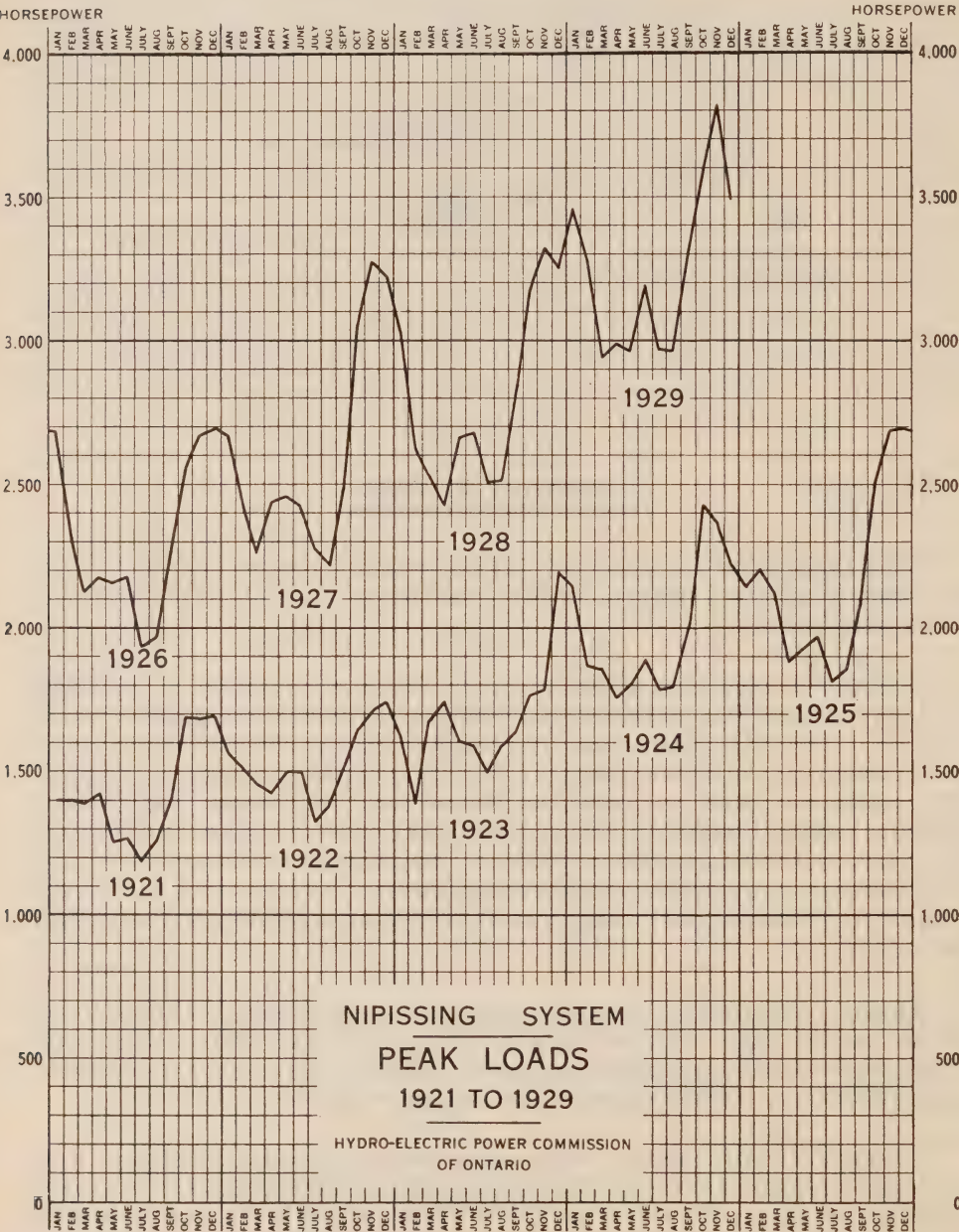
Rural power district	Peak load in horsepower			Change in load 1928-1929	
	Oct., 1927	Oct., 1928	Oct., 1929	Decrease	Increase
Belleville.....	85.0	159.4	170.4	.....	11.0
Bowmanville.....	5.0	4.0	4.9	.....	0.9
Campbellford.....	50.9	56.3	54.7	1.6	.....
Cobourg.....	11.0	24.5	110.1	.....	85.6
Colborne.....	34.8	45.1	44.2	0.9	.....
Kingston.....	36.2	39.2	51.6	.....	12.4
Lakefield.....	.....	1.0	1.0	.....	.....
Napanee.....	.....	2.0	5.0	.....	3.0
Newcastle.....	5.0	12.5	14.5	.....	2.0
Oshawa.....	233.0	324.5	397.4	.....	72.9
Peterborough.....	155.5	359.4	424.7	.....	65.3
Pickering.....	115.6	97.0	127.3	.....	30.3
Port Hope.....	12.0	24.1	22.8	1.3	.....
Trenton.....	10.0	10.0	10.0	.....	.....
Wellington.....	.....	11.3	16.0	.....	4.7

CENTRAL ONTARIO AND TRENT SYSTEM—NEW RURAL POWER DISTRICTS

Rural power district	Date connected	Load in horsepower		Change in load 1928-1929	
		Initial	Oct., 1929	Decrease	Increase
Norwood.....	Jan. 1, 1929	1.0	5.3	.....	4.3
Warkworth.....	Nov. 1, 1928	1.0	1.0	.....	.....

will be a semi-automatic, remote-controlled plant. When completed it will be controlled from Bingham Chute plant, which is situated about a mile further down-stream.

A large amount of work was carried out on the storage dams as part of a maintenance and renewal programme extending over a number of years.

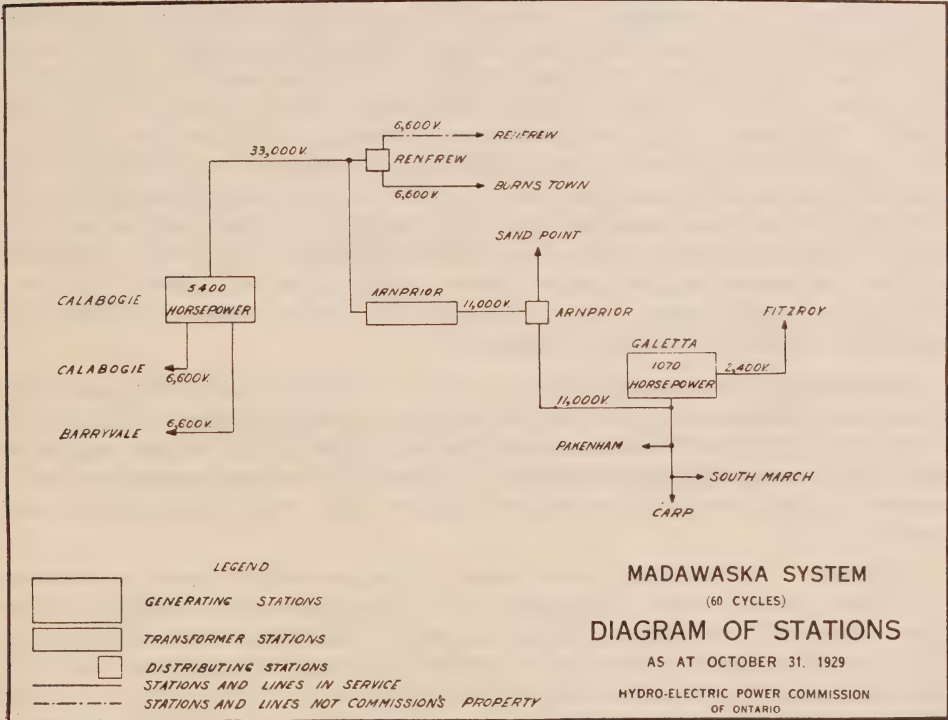


NIPISSING SYSTEM—LOADS OF MUNICIPALITIES, 1927-1928-1929

Municipality	Peak load in horsepower			Change in load 1928-1929	
	Oct., 1927	Oct., 1928	Oct., 1929	Decrease	Increase
Callander.....	92.0	113.9	107.2	6.7	.....
Nipissing.....	3.0	3.0	3.0	.....	.....
North Bay.....	2,515.0	2,721.2	2,992.6	.....	271.4
Powassan.....	103.0	70.8	96.6	.....	25.8

NIPISSING SYSTEM—RURAL POWER DISTRICT LOADS, 1927-1928-1929

Rural power district	Peak load in horsepower			Change in load 1928-1929	
	Oct., 1927	Oct., 1928	Oct., 1929	Decrease	Increase
North Bay.....	38.0	40.2	42.2	.....	2.0



MADAWASKA SYSTEM

The operation of the Madawaska system was taken over by the Commission on June 29, 1929. An inspection of the stations and lines has been made by the Commission's engineers and operating procedure is being gradually brought into accordance with the Commission's practice on other systems. Service has been satisfactorily maintained and no noteworthy changes have occurred.

EASTERN ONTARIO HIGH-VOLTAGE TRANSMISSION LINES

The outstanding development of the year affecting the Central Ontario and Trent, the St. Lawrence, the Rideau and the Ottawa systems, was the placing in service in eastern Ontario of a network of high-voltage lines and stations. These transmission lines serve as interconnecting links whereby 60-cycle power purchased from the Gatineau Power Company is transmitted to the Rideau, the Central Ontario and Trent, the St. Lawrence and the Ottawa systems, and whereby surplus and emergency power may be transferred from any one of these systems to another.

A line extending from the inter-provincial boundary near Ottawa to Smiths Falls supplies power to the new transformer station at 110,000 volts. Two lines are connected to the 44,000-volt bus at this station, one extending to Kingston and terminating in the new switching station for supplying power to the Central Ontario and Trent system, the other extending to a point near Brockville where it is tapped into the network of lines supplying power to the St. Lawrence system. The power supply for the Rideau system is taken from the 4,160-volt bus of the Smiths Falls transformer station and stepped up to 26,400 volts, by means of a temporary transformer station which was built on the same property. A 26,400-volt line was extended from this temporary station and tapped into the main Rideau system line about two miles from Smiths Falls. As a temporary expedient the power supplied to the Ottawa system is fed at 11,000 volts direct from the Gatineau Power Company until such time as the new 110,000-volt transformer station in Ottawa is completed.

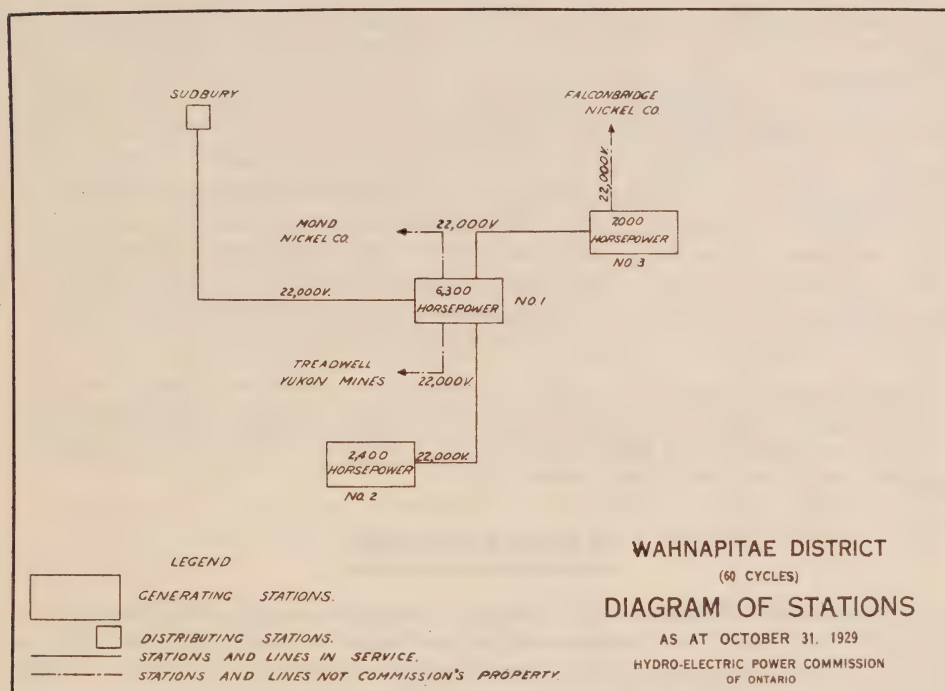
The new high-tension transformer station at Smiths Falls has a transformer capacity of 15,000 kv-a. The transformers have three windings, i.e., primary 110,000 volts, secondary 44,000 volts and tertiary 4,160 volts. Voltage regulation under load is accomplished by means of a specially designed regulating transformer which has a range of ten per cent buck or boost, with four steps in either direction.

The supply of Gatineau power over the high-voltage network in eastern Ontario has played a very important part in the successful operation of the above-mentioned four systems during the year. Following a very dry summer, water conditions became very unfavourable for power development on both the Central Ontario and Trent and the Rideau systems. The contract with the Gatineau Power Company provided for the definite delivery of 6,000 horsepower to October 1, with provisions for ordering additional power if required. Owing to the water conditions, additional power was ordered during the summer in blocks of 2,000 horsepower until the total contracted demand became 12,000 horsepower by September. The following are the peak-load demands of the

various systems on the Gattineau supply: Central Ontario and Trent system, 11,595 horsepower; St. Lawrence system, 4,290 horsepower; Ottawa system, 2,079 horsepower; Rideau system, 1,126 horsepower. These figures, of course, represent peaks occurring at different times, the combined total at any one time not exceeding the contract amount of 12,000 horsepower.

WAHNAPIITAE DISTRICT

While control of the Wahnapiitae Power Company was acquired by the Commission during the year, the company has continued as a joint stock company pending further arrangements, the same operating staff as formerly being retained. Service to Sudbury and other power customers in that locality has been continued but there has been nothing of special note to include in this year's annual report.



SECTION III

MUNICIPAL WORK

The Commission acts in an advisory capacity in connection with the operation of the "Hydro" utilities of the various municipalities with which it has contracts. In this connection the Commission arranges for the purchase, construction or extension of distribution systems and assists the municipal officials in making their financial arrangements to pay for the cost of these systems. All rate adjustments, as provided under The Power Commission Act, are recommended by the Commission, and a study of the operating conditions of all utilities is made annually and adjustments recommended accordingly. The Commission generally supervises the management and operation of all systems, more especially in the smaller municipalities, which, individually, are not of sufficient size to employ a manager with the technical knowledge necessary to administer properly all phases of the local system's operation.

In the case of the rural power districts, the Commission itself—on behalf of the corporations of the individual townships—operates the rural power systems, and distributes electrical energy to the customers of the respective corporations in any such rural power district.

NIAGARA SYSTEM

The power demands in the Niagara system showed a consistent growth during the year and the Commission has continued to add additional lines and capacity to take care of the ever-increasing loads of the municipalities. A tenth unit was purchased during the year for the Queenston plant. To take care of the rapid load growth in the western portion of the Niagara system, a 110,000-volt line was constructed from Niagara Falls to St. Thomas, following an almost direct route.

To take care of additional load from the Gatineau Power Company under the Commission's contract with it, an additional 112 miles of single-circuit 220,000-volt line was completed during the year from Toronto east. This is approximately one-half of the second circuit which will be completed during the coming year between Toronto and the Ottawa river.

The special contracts for interruptible power which the Commission has been able to arrange with various large power customers located close to Niagara Falls have been of substantial benefit to the system. By operating the Queenston-

Chippawa plant—the most efficient of the three plants owned by the Commission—at full capacity as much of the time as possible, the Commission is able to obtain from the available water supply a maximum amount of power. After taking care of the full requirements of the Niagara system operating at its greatest capacity, the Commission still has available a substantial block of power for sale under terms which permit its being interrupted during the maximum winter peak period, or whenever required, for use in Ontario.

The Commission has during the year sold substantial quantities of off-peak power to companies in the United States under arrangements which permit its withdrawal when required by Canadian industries.

General engineering assistance was given during the year to practically all of the municipalities in the Niagara system, by a general supervision of management and operation, and also in connection with the construction and extension of distribution systems and stations. Certain municipalities received special engineering advice and assistance regarding a number of matters, which are more fully referred to as follows:

Ayr—The local Commission, by resolution, requested on September 1st that the operation of its system be transferred to the Brant rural power district with respect to operation, maintenance, billing and collecting.

Beachville—The maintenance of the local distribution system was taken care of during the latter part of the year by the Commission at the request of the local Trustee Board.

Brantford Township—The local Commission, by resolution, requested on September 1 that the operation of its system be transferred to the Brant rural power district with respect to operation, maintenance, billing and collecting.

Burgessville—In accordance with a resolution of the Trustee Board, the operation and the maintenance of the distribution system were taken care of by the Commission, through the Norwich rural power district field staff.

Chatham—Underground cables were installed and the capacity of the municipal step-down station was increased to take care of the utility's present load conditions.

Courtright—The distribution system in Courtright was remodelled to supply an electrically operated pump in the waterworks plant. Also, the 4,000-volt line and the metering equipment which supplies power to Courtright were changed to three-phase.

Dashwood—At the request of the local Trustee Board, operation and maintenance were taken care of by the Commission's Exeter rural power district staff.

Dorchester—Plans and estimates were completed for a joint pole agreement with a local telephone company. The work in the field was carried out by the Commission's staff which operates the Dorchester rural power district. Under the new arrangement the appearance of the village is greatly improved, and better service is given to the consumers.

Drumbo—On September the first, at the request of the local Trustee Board, operation and maintenance were taken care of by the Commission's Brant rural power district staff.

Erieau—At the request of the village Council, the operation and maintenance of the local electrical distribution system were taken care of by the Commission, the work in the field being taken care of by their rural power district staff. Plans were completed to change to three-phase, the 4,000-volt line supplying the village, and to make additions and extensions to the village system to supply power to a large coal dock.

Essex County—A contract was made for a supply of 300 horsepower at 26,400 volts to a company supplying gas in this district. This power is to operate an artificial gas plant located a short distance southwest of the limits of the city of Windsor, and is to be used during the time of heavy demand on the natural gas supply, and to take care of any emergency which might arise. The Commission's engineers designed and superintended the construction of the company's substation.

Galt—A rearrangement of the 550-volt distribution system throughout the city was planned and advice was given regarding substation transformers to supply power at 550 volts for all industries.

Leamington—A supply of approximately 400 horsepower was given to a large factory in the town which formerly generated all its own power from steam.

Lucan—Plans and estimates were completed for the overhauling of the distribution system. The distribution line work was carried out by the Commission's staff which operates the London and Lucan rural power districts.

Merlin—At the request of the Police Trustee Board, the operation and maintenance of the village system were taken care of by the Commission, and operated by the rural power district field staff. The distribution system was changed from 4,000 to 8,000 volts to receive power from the new 26,400/8,000-volt distributing station constructed in Merlin.

New Toronto—To provide for the increasing loads, the greater portion of the primary distribution system was changed from 2,300 to 4,000 volts and additional primary feeders were erected.

Otterville—The operation and the maintenance of the electrical distribution system were taken care of by the Commission through the Norwich rural power district staff, in accordance with a request of the Trustee Board.

Petrolia—Tests were carried out by engineers of the Commission on the installation of a second electrically operated pump (750 imperial gallons per minute at 300-foot head, driven by a 100 horsepower, 550-volt motor) in the Petrolia waterworks plant.

Port Colborne—Plans were prepared for new cable crossings under the Welland ship canal.

Sandwich—Plans were made for the power supply to the Ambassador suspension bridge connecting the town of Sandwich with the city of Detroit. The downstream side of this bridge for its entire length will be lighted by electric energy from the Sandwich Hydro-Electric system, a series lighting system being installed.

Scarborough Township—A new station was erected for the purpose of supplying this township. Very extensive alterations and additions were made in the 4,000-volt distribution system on account of supplying the power from a different location and because of an increase in the general load.

Springfield—The maintenance of the distribution system during the year was taken care of by the Aylmer rural power district staff.

Stratford—Plans were prepared for the remodelling of the local substation for the purpose of installing larger equipment to take care of increasing loads.

Strathroy—The 4,000-volt distribution system was rebuilt in order to improve the local service.

Tavistock—Plans covering changes in the distribution system were forwarded to the municipality and the work was taken care of under the supervision of the Commission's engineers.

Thorndale—The operation and the maintenance of the local distribution system were taken care of by the Commission, at the request of the local Trustee Board.

Trafalgar Township—A distribution system owned jointly by the customers supplied was absorbed into Area No. 2, comprising the southwesterly section of the township. This system was partially rebuilt and considerable extensions were made to it.

Walkerville—Additional 4,000-volt feeders were installed to supply power to two large automotive companies, and to serve as a tie line between Walkerville's new substation in the southern part of the town.

Woodstock—A new 1,500-kv-a. step-down substation was constructed in the southwest section of the city. A study was made of the operating characteristics of the local system in order to determine the desirability of completing the 13,200-volt ring bus connecting the five municipal step-down stations by the installation of air-break switches, etc.

York North Township—New primary lines for feeding the westerly section of the township from a new station erected north of Weston have been constructed.

Zurich—The operation and the maintenance of the local system during the year were taken care of by the Commission, at the request of the local Trustee Board.

GEORGIAN BAY SYSTEM

The demand for power on this system has manifested a steady growth throughout the year, in consequence of which the output of the new 2,300 horsepower development at Trethewey Falls, which was completed and placed in operation during the year, has all been taken up. The Muskoka developments were tied in with the Wasdells development on the Severn river by a connecting transmission line, during the year, and the 22,000-volt transmission line was extended to Uxbridge and Port Perry to give improved service at the south end of the Wasdells district.

In order to provide for the present and future requirements of the Eugenia district—the demand for power in that area having grown beyond the capacity of the Eugenia development—the Commission has made arrangements for

constructing a 110,000-volt line from Kitchener (in the Niagara system) to Hanover and for the installation of a 5,000 kv-a. frequency-changer set at Hanover. It has also installed a synchronous condenser and auto-transformers at the Eugenia development to facilitate the transfer of larger blocks of power from the Severn and Muskoka developments to the Eugenia district. The Commission has also completed the purchase of two power sites on the Saugeen river at Maple Hill and Hanover.

Arrangements were made to proceed with the construction of a 12,000-horsepower development on the Musquash river at Ragged rapids and work was commenced on a tie transmission line between this development and Big Chute generating station.

The property of the Bala Electric Light Company serving the towns of Bala, Port Carling, and the adjacent area was purchased from the Burgess estate during the year. This gave the Commission complete control of all the power sites on the Musquash river. This system, together with the generating plants at Bala, will eventually be merged into and form a part of the Georgian Bay system. Arrangements were made for extending the transmission line on the north end of Eugenia development to the town of Southampton. This extension was placed under construction during the month of September.

The meeting of the Eugenia system municipalities (consisting of all the municipalities in the Eugenia division) was held this year at the Eugenia park, the delegates being guests of the Commission. The occasion afforded an excellent opportunity for the inspection of the Eugenia development by representatives from the towns receiving electrical energy from it.

General engineering assistance and advice concerning the management and operation of the various local distribution systems, the application of rates, and information to power and lighting consumers, was rendered to practically all municipalities.

Engineering advice of a special nature in connection with the matters referred to was given to the following municipalities:

Chesley—A complete survey was made of the Chesley distribution system with respect to changes necessary to provide for increasing demands for electrical energy, involving transformer changes and the installation of additional transformers and primary and secondary conductor. Arrangements were made for organizing a construction gang to complete this work.

Gravenhurst—A complete new ornamental street-lighting system was designed and constructed for the municipality. All poles and lines, including those of the Bell Telephone Company, were removed from the main street in the business area and the secondary mains were placed on the buildings on each side of the street by secondary rack construction.

Kincardine—A complete survey of the distribution system in this municipality was made by the Commission's engineers and recommendations were made with respect to transformer and primary and secondary line changes necessary to provide for improved service.

Lucknow—A complete survey was made of the distribution system in this municipality and recommendations were made covering changes in transformers and primary and secondary lines necessary to provide for improved service.

Orangeville—A complete new ornamental street-lighting system was designed for the business section on the main street of the town. Material was purchased and arrangements were completed for proceeding with construction work early next year.

Port Perry—Arrangements were completed for constructing a substation in this municipality to serve the distribution system from a new 22,000-volt transmission line, replacing the 4,000-volt service at present obtained from the Greenbank substation.

Southampton—Both enabling and money by-laws were passed by this municipality during the year covering the execution of a contract with the Commission for electrical service. An investigation was made covering the cost of constructing a new distribution system and assistance was given to the local officials in submitting information to the ratepayers concerning hydro-electric service.

Uxbridge—Arrangements were completed for constructing a new substation in this municipality to be served from a new 22,000-volt transmission line superseding the 4,000-volt service formerly obtained from the Greenbank substation.

Walkerton—A valuation was made of the private company's distribution system and an estimate prepared covering the cost of constructing a new distribution system in the municipality in connection with hydro-electric service. Information was given to the local officials in connection with these matters.

ST. LAWRENCE SYSTEM

During the year the demand for electrical energy for industrial power, in one municipality decreased owing to woodworking factories discountinuing operations, and in two other municipalities, factories manufacturing milk products, made changes in the process of manufacture whereby the uses of electrical energy were curtailed. There has been an increase in use, in all municipalities, for electrical energy for domestic purposes.

A system customer in Cornwall township made extensive additions and alterations to his plant, and when the contract for 5,000 horsepower expired in June a new contract was completed for a demand up to 10,000 horsepower.

Cardinal—The village of Cardinal completed negotiations during the year for a supply of power. This municipality will be supplied at 4,000 volts, three-phase, from a substation erected in the municipality.

RIDEAU SYSTEM

Growth of load in the municipalities served by the Rideau system has required an increase in station transformer capacity at Perth and Kemptville, and arrangements are being made to add additional transformer capacity at Carleton Place.

Power has been supplied from the High Falls plant, from the plant at Carleton Place, from the Gatineau Power Company through the transformer station at Smiths Falls, and also from the Rideau Power Company's plant at Merrickville which was rebuilt during the year, following a fire in 1928.

THUNDER BAY SYSTEM

During the year the loads in the various municipalities comprising this system equalled the generating capacity at the Cameron Falls generating station. The Cameron Falls development was placed in operation in December, 1920, with a demand approximating 7,000 horsepower and in less than nine years the full capacity of the development has been taken up, a demand of 77,000 horsepower having been established during the month of September. The construction of the new Alexander development on the Nipigon river was continued during the year and will probably be placed in operation at the end of the year 1930. When completed, it will have a capacity of 54,000 horsepower. Arrangements were made for constructing a third transmission circuit between Cameron Falls and the Bare Point substation at Port Arthur.

A large pulp and paper company in Fort William doubled its demand for power, having completed a large extension to its mill. It established a demand of 24,000 horsepower. The load sold in Port Arthur during the year was 7,382 horsepower greater than during the previous year and the total increase in load sold on the Thunder Bay system for the current year was 14,409 horsepower greater than last year.

Engineering assistance with respect to the operation and management of the local distribution systems and the application of rates was given during the year to the municipalities of Fort William, Port Arthur and Nipigon village, which comprise the municipalities served by the Thunder Bay system.

OTTAWA SYSTEM

The Ottawa system is supplied with power under a contract which was originally with the Ottawa and Hull Power Company, now incorporated in the Gatineau Power Company's system. This contract provides for supplying up to 20,000 h.p. at 11,000 volts. Arrangements were made with the Gatineau Power Company for additional power during the period of constructing a new transformer station. This new station will supply power to the Ottawa system from the 110,000-volt line, under a contract with the Gatineau Power Company. The Ottawa Hydro is erecting at the same point a low-tension switching station.

CENTRAL ONTARIO AND TRENT SYSTEM

During the year 1929 active steps were taken to place this system on the same basis as the other systems of the Commission. Negotiations were carried on with practically all the municipalities not owning their local distribution systems, with a view to the sale of the local systems to the respective municipalities. When this sale has been completed, it is proposed to have the title to the generating and transmission system vested in the Commission, in the same manner as in all the other systems.

The growth of load on this system has been satisfactory and the additional power required has been supplied over the connection through Kingston and Smiths Falls from the Gatineau Power Company. This supply of power has protected the system's customers from a serious shortage of power, due to low water on the Trent river and its tributaries.

Belleville—The local distribution system, formerly owned by the Government and operated by the Commission, has now been purchased by the municipality and will be operated by the Commission until the local Hydro-Electric Commission takes office, after the next municipal elections.

Bowmanville—A new feeder was installed in Bowmanville substation to take care of increased demand for power.

Cobourg—A number of water mains in the Cobourg waterworks system have been renewed where the corporation is paving the streets. The installation of two new filters has been authorized for the pumping plant.

Deseronto—Engineering assistance was given to the corporation in connection with its waterworks system and a new electrically driven pump was installed under the supervision of the Commission.

Hastings—A report is in preparation on the supply of power to Hastings for local distribution.

Kingston—The Public Utilities Commission has made extensions to the white-way street-lighting system on Princess street and in other sections of the city. Arrangements have been completed for installing a new feeder switchboard at the substation.

Lindsay—The Corporation of Lindsay completed the purchase of the local distribution system last year and has been very successful in the operation of it.

Napanee—A 750-kv.-a. transformer has been installed to replace a 300-kv.-a. in the Napanee substation, in order to provide for the growth of load in Napanee and the surrounding district.

Norwood—An additional 300-kv.-a. transformer has been installed in Norwood substation to provide for the growth in load in Norwood and Havelock.

Oshawa—The city of Oshawa completed negotiations during the year for the purchase of the local electric and gas utilities owned by the Government and operated by the Commission.

Peterborough—The city of Peterborough has purchased the local gas plant, formerly owned by the Ontario Government and operated by the Commission. It is proposed to install an additional 3,000-kv.-a transformer in the Peterborough municipal substation to provide for increased load.

Pictou—To provide substation capacity to meet the growth in domestic appliances, the transformer equipment was increased from 600 kv.-a. to 1,050 kv.-a.

Port Hope—The voltage of the local distribution system was changed from 2,400 volts delta to 4,160 volts "Y" in order to improve the voltage regulation and to take care of increased load.

Trenton—The Trenton street-lighting system is being changed from a series system to a multiple system. The Trent Cotton Company has contracted for power and is being served at 6,600 volts.

Whitby—The municipality of Whitby is installing a second 750-kv-a. transformer in its substation to take care of the increase in load at Whitby and in the Pickering rural power district.

NIPISSING SYSTEM

Due to the growth of load and the increasing demand for power, especially in the city of North Bay, a new development at Elliott Chute on the South river was constructed and placed in operation during the year, increasing the generating plant capacity of the system by 1,800 horsepower.

MADAWASKA SYSTEM

During the year, the Commission purchased the electrical properties supplying the towns of Arnprior and Renfrew and the surrounding district, formerly owned and controlled by Mr. M. J. O'Brien. These properties consist of:

1. The Galetta Electric Light Company, the stock of which was purchased by the Commission. This Company serves the town of Arnprior and numerous villages and hamlets in this vicinity, from a development on the Mississippi river at Galetta.

2. The Calabogie Power Company on the Madawaska river, together with interconnecting transmission lines to the Galetta Company's property and to Renfrew. These properties were acquired from Mr. M. J. O'Brien and the purchase included a number of important power sites on the Madawaska river which will be available for future power requirements of the Commission.

NEW ONTARIO DISTRICT

Engineering advice and information concerning electrical service was given to various municipalities in the northern part of the Province, especially to the city of Sault Ste. Marie and the towns of Chelmsford, Rainy River, Capreol, and Sioux Lookout. The construction of a development was undertaken at Ear Falls on the English river for the purpose of supplying power to mining, paper and other companies, and 2,000 horsepower has already been contracted for. This development will also be used in future for serving the town of Sioux Lookout, and possibly for the pulp and paper industry. A survey was made of the present and future mining loads in the vicinity of Sudbury and adjacent to the territory known as the Sudbury basin, and an investigation was carried on covering future developments on the French, Ottawa, Mississagi and other rivers as well as the possibility of bringing power into the district from developments on the Hudson Bay watershed. The Commission purchased the majority stock of the Wahnapiatae Power Company and is now operating its developments and transmission lines which serve the town of Sudbury and several mining corporations in the district.



RURAL ELECTRICAL SERVICE IN ONTARIO
A farm home in Ontario using "Hydro" service

RURAL ELECTRICAL SERVICE

The history of the application of mechanical power to agriculture is largely a record of individual effort. In Ontario, windmills have chiefly been used for pumping water and, since pioneer days, small waterpowers have been harnessed and used for sawing wood, grinding grain and similar processes. More recently, gasolene and oil engines have in some cases been utilized both for the operation of equipment on the individual farm and for the operation of the larger portable equipment which serves the rural community generally. The application of mechanical power to farming operations is therefore no novelty in Ontario and there is a growing appreciation of its importance as a contributing factor to successful farming.

Farm electrical service as given by the "Hydro", however, is much more than an aid to certain operations about the farm. It is a service that, in addition, adds the conveniences of the city dwelling to the attractiveness of the farm home, and more than any other agency can contribute to the maintenance of a satisfactory standard of living which will attract and hold the younger generation. The rural population has therefore welcomed with enthusiasm the possibility of obtaining the combination of lighting service with that of a most flexible form of power. The great networks of transmission lines which serve urban municipalities have constituted an opportunity and afforded a base from which rural primary lines may economically be extended over wide areas of the more closely settled parts of rural Ontario. The growth in mileage of rural lines during recent years has been phenomenal, and the farmers of Ontario are taking advantage of the service as fast as lines can be built to supply them.

The policy and practice of the Commission has been, and is, to make a distribution of electrical energy as widespread as possible, and to extend to every community that can economically be reached by transmission lines the benefit of electrical service. In harmony with this policy, the supplying of electrical service to rural districts has been undertaken according to a comprehensive and carefully thought-out programme. For the purpose of electrical service in rural Ontario, rural power districts are formed in the most closely settled portions of the Province traversed by transmission lines. A typical rural power district



RURAL ELECTRICAL
A farm home near Waterloo,

covers about 100 square miles. Its boundaries are not arbitrary geographical limits—such as define, for example, the areas of townships—but depend rather upon the economic distances which may be served from a distribution centre of city, town or village. It should be appreciated that without such transmission networks as have been constructed to serve the cities and towns of the Province, any extensive rural electrification would be economically impracticable.

The experience gained by the Commission and the improvements in technique, enable electrical service to be given to rural districts when there can be secured three signed farm contracts, or their equivalent, per mile of line to be constructed.

The assistance given by the Province to farmers and rural residents in the form of a grant toward the capital cost of supplying electrical service is being made to the maximum amount provided for by the Rural Hydro-Electric Distribution Act, namely, 50 per cent of the cost of lines and secondary equipment.

This assistance is in pursuance of a long-established governmental policy of promoting the basic industry of agriculture in various ways. This policy had previously found expression in the establishment of agricultural schools, colleges and experimental farms, in assistance for road building and in other ways. The grants-in-aid thus given make it possible to extend hydro-electrical power service to those engaged in and connected with agricultural pursuits in less densely populated districts where otherwise such service would not be financially feasible.

The extent and effect of the Province's financial assistance with respect to the distribution of power in rural districts should be clearly understood. The Government grant-in-aid relates to the initial capital investment. Having made

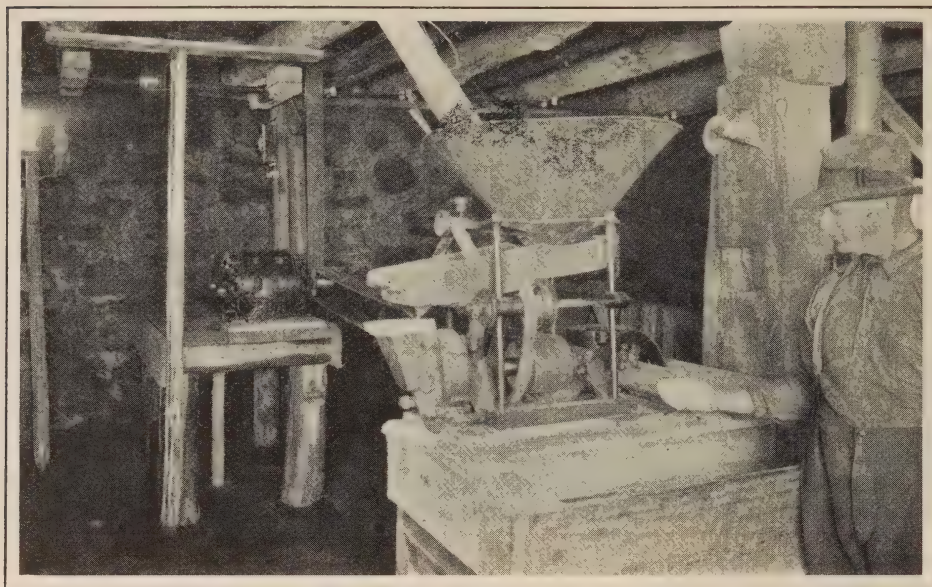


SERVICE IN ONTARIO
Ontario, using "Hydro" service

its grant-in-aid, the Government's participation in operations respecting the property to which the grant applies ceases. Each rural power district not only pays its cost of operation, maintenance and administration of these lines, but also sets up reserves for renewals, obsolescence and contingencies on the whole of the equipment and lines, as well as for sinking fund on the investment made by the Commission on behalf of the local authorities. The provincial grant-in-aid is of special assistance when the initial financial investment for any rural power district is made.

The aggregate load distributed to the rural dwellers is, and possibly must always be, but a relatively small porportion of the total energy distributed by the Commission, and the provincial grant towards the cost of rural service is of no advantage to the power system as a whole, because the demand for power at present, apart altogether from the small amount distributed to the rural districts, is such as readily to absorb all the available supply. On the other hand, the beneficial influence of rural electrical service on agriculture is reflected in the prosperity and welfare of the Province as a whole, and is already a factor of importance and worth.

The accompanying diagrams illustrate the unprecedented expansion of rural primary-line extensions during the last nine years, and the increase in the use of electricity by the farming communities of Ontario as shown by the aggregate peak loads. It is believed that further substantial progress will be made in the next few years. An outstanding reason for this growth is the extent to which the Commission has gained the confidence of the rural communities through efficiency in the construction of lines, through progressive reductions in rates and by a continuity of service which has contributed very materially to progress by inspiring confidence in the use of electrical power-driven machinery.



RURAL ELECTRICAL SERVICE IN ONTARIO

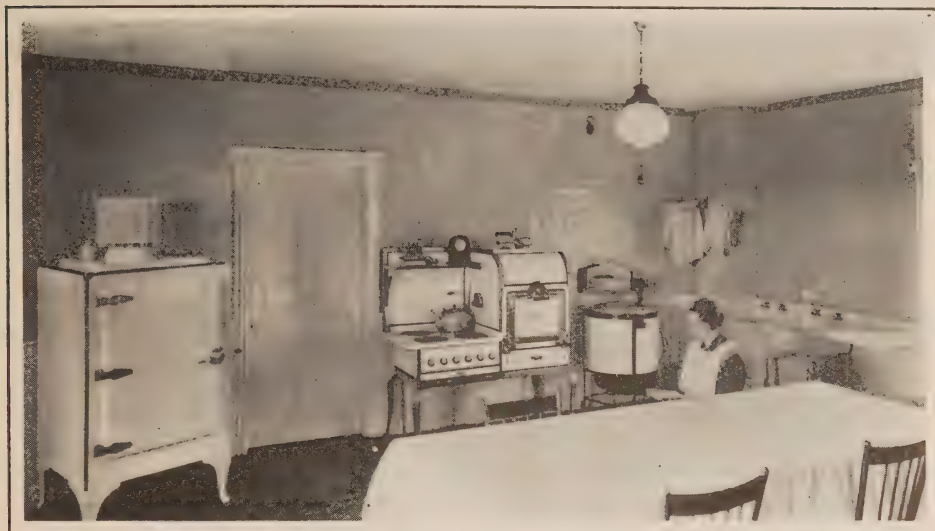
Three-horsepower motor in barn driving chopper, saw bench and line shaft

The Year's Activities

During the past year the amount of constructional work carried out in the rural power districts exceeded by a substantial margin that of any previous year. Some 1,044 miles of primary transmission lines were constructed and electrical service was given to 6,277 additional consumers. The capital expenditure approved for rural construction work during the past year was \$2,668,241, and the aggregate peak load in October, 1929, reached 21,138 horsepower. Details of these matters and of the present status of rural distribution are presented in the accompanying tables. For the coming year, arrangements have been made to construct about 1,500 miles of additional rural lines.

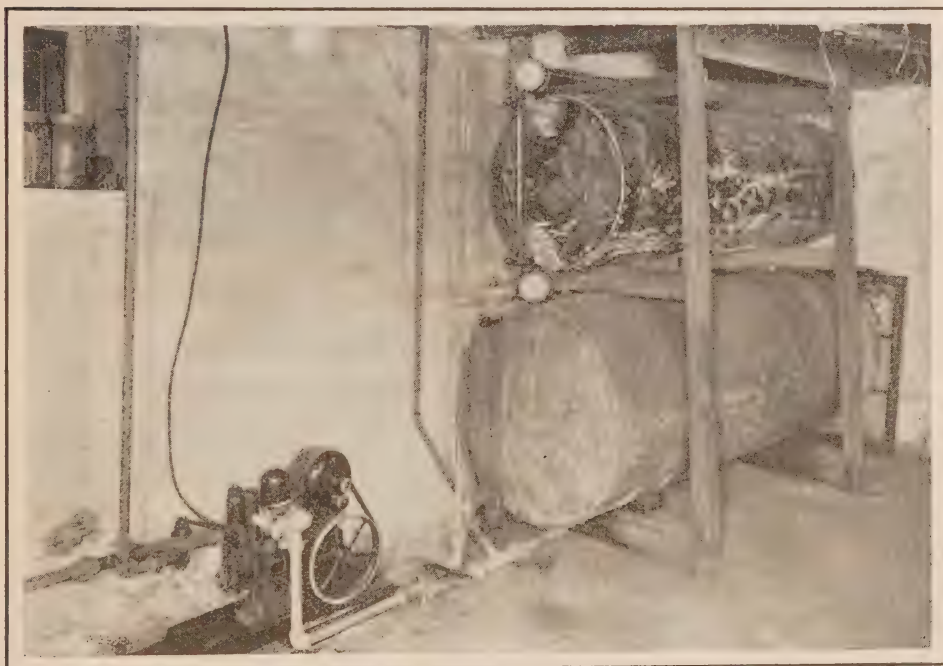
The engineers of the Commission attended during the past year a number of public meetings throughout the Province, held for the specific purpose of explaining to prospective consumers the rates at which electrical power could be supplied, the uses which can be made of power on the farm and the procedure necessary to obtain service. In all, eighty-eight meetings were held. Where possible, moving pictures were shown, illustrating the uses of electricity on the farm. The provincial statutes relating to rural distribution were explained, pamphlets were distributed, and assistance was given to local committees appointed to canvass their respective districts.

The Commission also co-operated with the Provincial Department of Agriculture by giving similar talks to students taking short-course lectures at the Agricultural College at Guelph, and at other centres. Representatives of the Commission also attended provincial ploughing matches and arranged to give



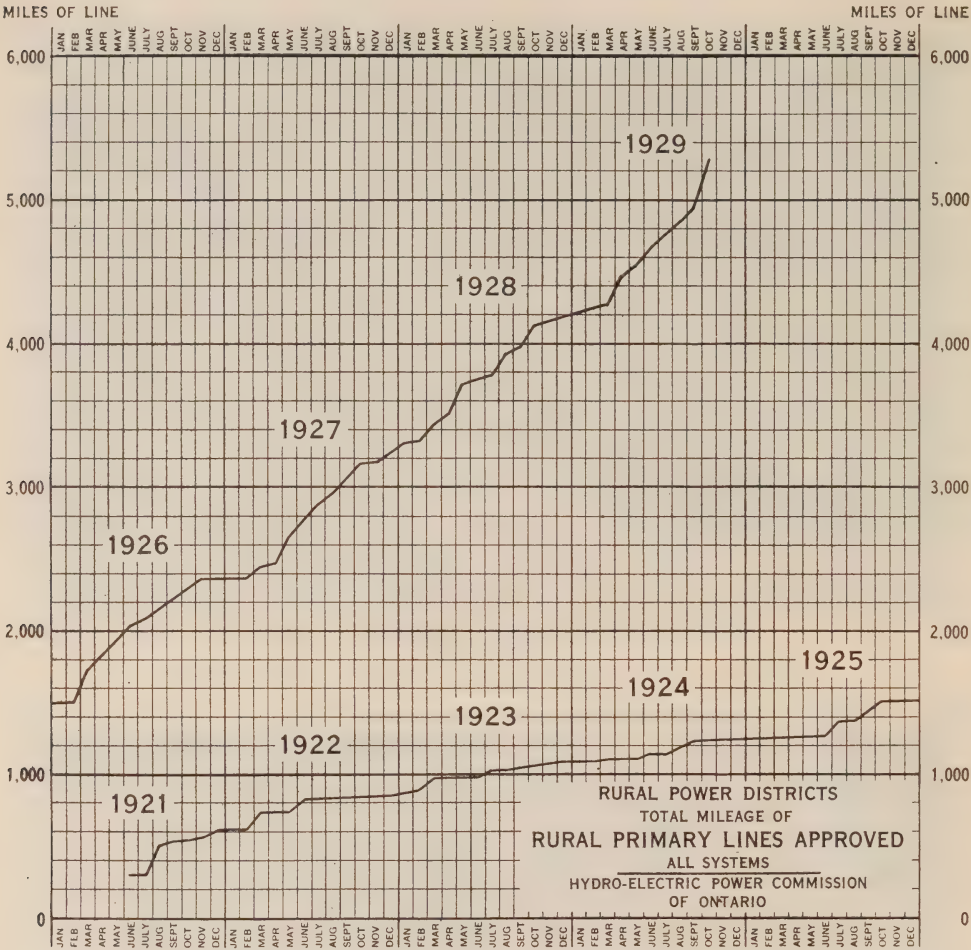
RURAL ELECTRICAL SERVICE IN ONTARIO

An electrically-equipped kitchen in a farmer's home in Markham rural power district. The electric range, washing machine, refrigerator, iron and toaster, with a modern sink and laundry tubs supplied by a water system installed in the basement, assist materially in relieving the arduous duties of the farmer's wife



RURAL ELECTRICAL SERVICE IN ONTARIO

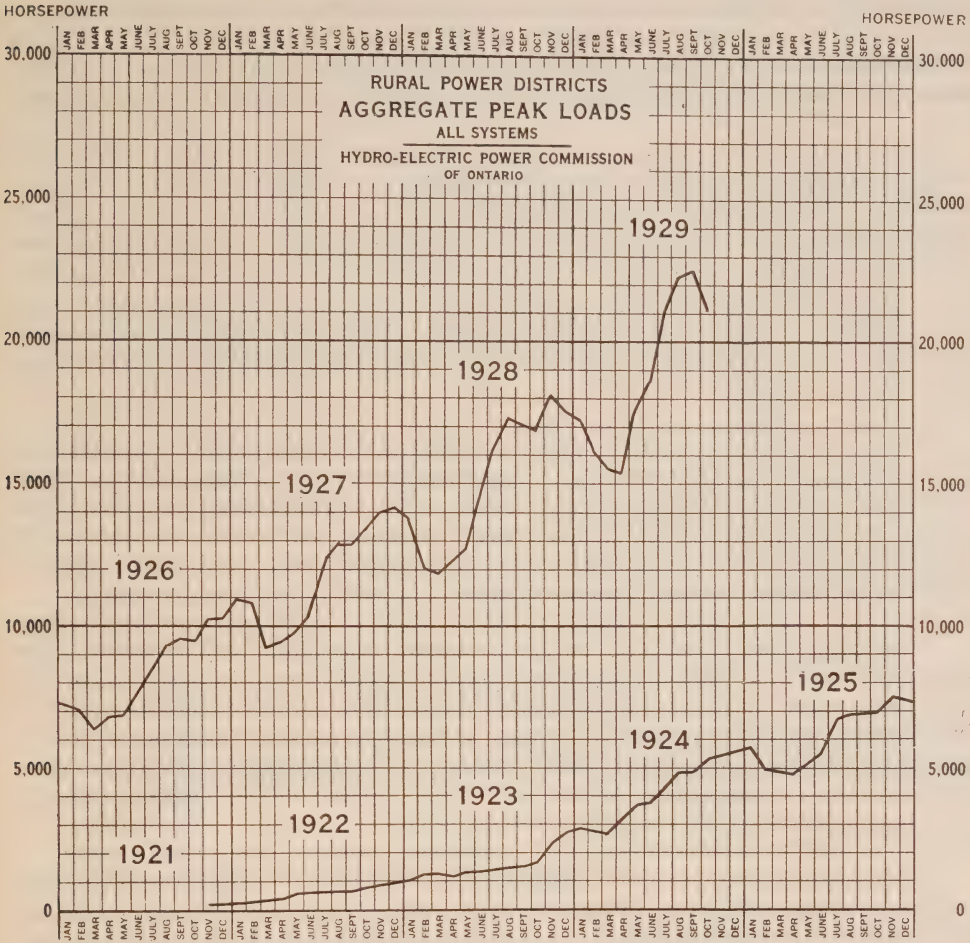
Water service for the farm, home and stables is always a problem. This illustration shows a single-pumping unit with two storage tanks and valve arrangements to take care of the supply of hard and soft water, the former for both house and barn, the latter for the house only. Three-way valves on the intake and output sides of the pump provided for switching from one supply and storage to the other. This installation is in the basement of the house



SUMMARY OF RURAL LINE EXTENSIONS

As Approved by the Commission from June 1, 1921, to October 31, 1929

System	Miles of primary line	Number of consumers			Capital approved for extension	
		Hamlet	Farm	Total	Total	Provincial grant
Niagara.....	4,340.58	16,165	14,041	30,206	\$ 9,614,248.94	\$ 4,807,124.47
Georgian Bay.....	275.30	1,475	596	2,071	580,484.36	269,175.70
St. Lawrence.....	159.53	780	298	1,078	342,879.45	171,439.72
Rideau.....	43.30	172	55	227	81,854.00	40,927.00
Ottawa.....	83.82	312	284	596	187,703.53	93,851.76
Central Ontario and Trent.....	353.71	2,141	860	3,001	817,357.50	408,678.75
Nipissing.....	5.00	152	9	161	17,268.00	8,634.00
Total.....	5,261.24	21,197	16,143	37,340	11,641,795.78	5,799,831.40



RURAL LINE EXTENSIONS DURING THE YEAR 1929

System	Miles of primary line	Number of consumers			Power supplied in October, 1929	Capital approved for extensions	
		Hamlet	Farm	Total		Total	Provincial grant
Niagara.....	804.13	1,676	2,494	4,170	18,193	\$ 1,844,903.00	\$ 922,451.50
Georgian Bay.....	92.11	353	176	529	668	185,620.00	92,810.00
St. Lawrence.....	77.48	380	158	538	292	171,579.00	85,789.50
Rideau.....	43.30	172	55	227	76	81,854.00	40,927.00
Ottawa.....	6.95	41	36	77	356	17,062.00	8,531.00
Central Ontario and Trent.....	146.75	493	224	717	1,511	362,952.00	181,476.00
Nipissing.....	.50	13	6	19	42	4,271.00	2,135.50
Total.....	1,157.32	3,128	3,149	6,277	21,138	2,668,241.00	1,334,120.50

information to a large number of interested farmers. The manufacturers of electric motors and other equipment used in connection with power on the farm co-operated with the Commission in giving demonstrations at various places, showing actually how power can advantageously be employed by the farmer.

During the past year not only has the power taken by the rural power districts increased because of increased mileage of transmission lines and the demand of the consumer connected to these new lines, but the demand for power has also increased due to the greater use of electricity on the farms already served and due also to the connection of new consumers to existing lines. Furthermore, many townships have installed—in districts where the conditions warranted—street lighting systems on the public highways. To supply these increased loads, new substations have been constructed and the capacities and number of lines have been increased.

One of the most important factors in connection with rural power supply is the stability of the rates charged. Experience has led the Commission to adopt the safe policy of constructing rural lines only when sufficient contracts have been signed to guarantee payment of the fixed charges on the cost of the lines to be constructed; the minimum signed contracts required being three rural, light or medium, farm contracts, or their equivalent, per mile of line constructed.

The rates first submitted to the proposed consumers are, therefore, the maximum, and the rates in any rural power district may be and in practice have been reduced from time to time as the number of consumers per mile of line constructed in the district increases above the required minimum. Sixty per cent of all operating rural power districts have had their rates reduced as shown in the accompanying table, and it will be noted that service charges have been reduced to as low as 50 per cent of the maximum.

The service given by the Commission is "at cost" and the rate schedules are designed upon this basis. In practice, however, it is, obviously, sound practice to provide for a small surplus of revenue over estimated costs. Should greater use be made of the service than was anticipated, a greater revenue will result without proportionate increase in expenses; and therefore a greater surplus will also result. This has been the experience of the Commission in connection with the operation of rural power districts.

At the end of this section is given a tabulation of the rural power districts established in connection with the several systems of the Commission, which shows the miles of line, the number of consumers and the rate schedules for each district.

The tabulation on page 67 shows in detail the extensions approved during the year, the number of consumers, the amounts of power supplied, the capital expenditures and the amounts of provincial grant-in-aid of rural lines approved by the Government.

CLASSIFICATION OF SERVICES FOR RURAL POWER DISTRICTS

When contracts between the consumer and the township have been executed, users of power in townships are supplied with electric service under twelve general classes with limitations as follows:

Class	Service	Class demand kilowatts	Phase	Volts	Fuse rating amperes (maximum)
1B	Hamlet Lighting	0.75	1	110	15
1C	“ “	2	1	220/110	35
2A	House Lighting	1	1	110	20
2B	Small Farm Service	2	1	220/110	35
3	Light Farm Service	3	1	220/110	35
4	Medium Farm Service	5	1	220/110	50
5	“ “ “	5	3	220/110	35
6A	Heavy Farm Service	9	1	220/110	100
6B	“ “ “	9	1 and 3	220/110	60
7A	Special Farm Service	15	1	220/110	According to load
7B	“ “ “	15	1 and 3	220/110	According to load

Class I: Hamlet Service—Includes service in hamlets, where four or more consumers are served from one transformer. This class excludes farmers and power users. Service is given under two sub-classes as follows:

Class 1-B: Service to residences or stores. Use of appliances over 750 watts permanently installed is not permitted under this class.

Class 1-C: Service to residences or stores with electric range or permanently installed appliances greater than 750 watts. Combinations of residence and store supplied from one service shall be not less than Class 1-C. Special or unusual loads will be treated specially.

Class II-A: House Lighting—Includes service to all residences that cannot be grouped as in Class I. This class excludes farmers and power users.

Class II-B: Farm Service, Small—Includes service for lighting of buildings and power for miscellaneous small equipment and power for a single-phase motor not exceeding 2 horsepower or an electric range (motor and range not to be used simultaneously) on a small farm of fifty acres or less.

Class III: Farm Service, Light—Includes service for lighting of farm buildings, power for miscellaneous small equipment, power for single-phase motors not exceeding 3 horsepower and electric range. Range and motor are not to be used simultaneously.

Class IV: Farm Service, Medium Single-Phase—Includes service for lighting of farm buildings and power for miscellaneous small equipment, power for single-phase motors up to 5-horsepower demand or an electric range. Range and motor are not to be used simultaneously.

Class V: Farm Service, Medium 3-Phase—Includes service for lighting farm buildings and power for miscellaneous small equipment, power for 3-phase motors, up to 5-horsepower demand, or an electric range. Range and motor are not to be used simultaneously.

Class VI: Farm Service, Heavy—Includes service for lighting of farm buildings and power for miscellaneous small equipment, power for motors up to 5-horsepower demand and an electric range, or 10-horsepower demand without an electric range. Single- or three-phase service will be given at the discretion of the Hydro-Electric Power Commission of Ontario.

Class VII: Farm Service, Special—Includes service for lighting of farm buildings, power for miscellaneous small equipment, power for 3-phase motors from 10- to 20-horsepower demand and electric range. Single or three-phase service will be given at the discretion of the Hydro-Electric Power Commission of Ontario.

RURAL POWER DISTRICTS—MILES OF LINE, NUMBER OF CONSUMERS AND RATES—OCTOBER 31, 1929
 NIAGARA SYSTEM

Rural power district	Miles of line	No. of consumers	Rural rates											Gross consumption charge		Prompt payment discount
			Class and gross monthly service charge													
			1B	1C	2A	2B	3	4	5	6A	6B	7A	7B	1st 14 hrs. use of class demand min. 30 kw-hrs.	All additional	
		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	cents	cents	%	
N5 D1	1.33	5	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	6	2	10
N18 D9	1.87	4	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	7	2	10
N15 D3	49.43	466	1.30	2.35	1.60	2.45	3.20	3.35	4.05	5.15	5.85	7.65	9.25	4	2	10
N11 D2	85.61	445	1.65	3.00	2.05	3.15	4.10	4.30	5.20	6.65	7.50	9.85	11.90	5	2	10
N12 D4	9.50	41	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	5	2	10
N7 D1	41.50	267	1.65	3.00	2.05	3.15	4.10	4.30	5.20	6.65	7.50	9.85	11.90	3.5	2	10
N1 D4	99.73	728	1.35	2.50	1.70	2.60	3.45	3.60	4.35	5.55	6.25	8.20	9.90	3.5	2	10
N15 D2	28.77	297	1.35	2.50	1.70	2.60	3.40	3.55	4.30	5.40	6.25	8.10	9.90	5	2	10
N14 D3	43.68	239	1.45	2.65	1.80	2.75	3.65	3.80	4.60	5.90	6.65	8.70	10.55	4	2	10
N3 D3	93.51	978	1.10	2.00	1.35	2.10	2.75	2.85	3.45	4.45	5.00	6.55	7.95	3.5	1.5	10
N14 D10	28.44	102	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	5	2	10
N13 D2	42.80	148	1.65	3.00	2.05	3.15	4.10	4.30	5.20	6.65	7.50	9.85	11.90	5	2	10
N12 D1	79.92	381	1.45	2.65	1.80	2.75	3.65	3.80	4.60	5.90	6.65	8.70	10.55	3	1.5	10
N18 D8	22.15	74	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	7	2	10
N12 D2	16.21	118	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	5	2	10
N2 D5	50.93	252	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	4	2	10
N14 D1	104.88	650	1.45	2.65	1.80	2.75	3.65	3.80	4.60	5.90	6.65	8.70	10.55	4	2	10
N1 D7	10.83	119	1.65	3.00	2.05	3.15	4.10	4.30	5.20	6.65	7.50	9.85	11.90	3.5	2	10
N8 D11	42.98	223	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	6	2	10
N4 D3	91.76	516	1.35	2.50	1.70	2.60	3.45	3.60	4.35	5.55	6.25	8.20	9.90	4	2	10
N4 D1	96.06	495	1.35	2.50	1.70	2.60	3.45	3.60	4.35	5.55	6.25	8.20	9.90	4	2	10
N14 D12	8.62	31	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	6	2	10
N12 D5	22.92	157	1.50	2.80	1.90	2.95	3.85	4.05	4.90	6.25	7.05	9.30	11.20	4	2	10
N2 D1	58.05	491	1.30	2.35	1.60	2.45	3.20	3.35	4.05	5.15	5.85	7.65	9.25	3	1.5	10
N1 D9	1.25	13	1.00	1.80	1.25	1.90	2.50	2.60	3.20	4.05	4.55	6.00	7.05	3.5	2	10

Dutton.....	N11 D3	28.28	114	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	6		2	10
Elmira.....	N7 D3	4.10	34	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	4		2	10
Elora.....	N5 D4	12.79	135	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	4		2	10
Essex.....	N15 D7	65.57	341	1.35	2.50	1.70	2.60	3.40	3.55	4.30	5.50	6.25	8.20	9.90	5		2	10
Exeter.....	N4 D6	54.83	465	1.45	2.65	1.80	2.75	3.65	3.80	4.60	5.90	6.65	8.70	10.55	5		2	10
Forest.....	N18 D6	8.00	30	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	6		2	10
Galt.....	N6 D2	23.82	224	1.65	3.00	2.05	3.15	4.10	4.30	5.20	6.65	7.50	9.85	11.90	4		2	10
Georgetown.....	N5 D2	31.16	157	1.60	3.00	2.00	3.10	4.10	4.30	5.20	6.60	7.50	9.80	11.90	4.5		2	10
Goderich.....	N8 D2	4.46	50	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	5		2	10
Grantham.....	N1 D2	40.95	460	1.00	1.50	1.25	1.90	2.50	2.60	3.20	4.05	4.55	6.00	7.25	3	1.5		10
Guelph.....	N5 D3	61.15	361	1.65	3.00	2.05	3.15	4.10	4.30	5.20	6.65	7.50	9.85	11.90	4.5		2	10
Haldimand.....	N2 D8	17.07	120	1.55	2.85	1.95	2.95	3.90	4.05	4.90	6.25	7.10	9.30	11.25	4.5		2	10
Harriston.....	N8 D5	2.25	7	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	5		2	10
Harrow.....	N15 D4	53.00	439	1.45	2.65	1.80	2.80	3.65	3.80	4.60	5.90	6.65	8.75	10.60	5		2	10
Ingersoll.....	N10 D3	128.70	447	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	5.5		2	10
Jordan.....	N1 D3	27.98	255	1.05	1.90	1.30	2.00	2.65	2.75	3.35	4.25	4.80	6.30	7.65	3	1.5		10
Keswick.....	N3 D5	20.46	667	1.20	2.15	1.50	2.25	3.00	3.10	3.75	4.60	5.40	7.10	8.60	4.5		2	10
Kingsville.....	N15 D5	90.45	1,083	1.00	1.80	1.25	1.90	2.55	2.65	3.20	4.05	4.60	6.00	7.30	3.5		2	10
Listowel.....	N8 D8	26.70	161	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	5		2	10
London.....	N4 D2	153.74	1,639	.90	1.65	1.15	1.75	2.30	2.40	2.90	3.70	4.15	5.45	6.60	3	1.5		10
Lucan.....	N4 D5	25.59	106	1.60	3.00	2.00	3.10	4.10	4.30	5.20	6.60	7.50	9.80	11.90	6		2	10
Lynden.....	N2 D2	38.73	190	1.45	2.65	1.80	2.80	3.65	3.80	4.60	5.90	6.65	8.75	10.60	4.5		2	10
Markham.....	N3 D1	75.23	526	1.35	2.50	1.70	2.60	3.45	3.60	4.35	5.55	6.25	8.20	9.90	4.5		2	10
Merlin.....	N14 D15	39.68	167	1.70	3.15	2.15	3.30	4.35	4.50	5.55	7.00	7.90	10.40	12.55	5		2	10
Milton.....	N13 D3	33.74	217	1.55	2.85	1.95	2.95	3.90	4.05	4.90	6.25	7.10	9.30	11.25	5		2	10
Milverton.....	N8 D9	15.13	77	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	5		2	10
Mitchell.....	N8 D7	40.30	223	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	5		2	10
Newmarket.....	N3 D4	20.77	203	1.55	2.85	1.95	2.95	3.90	4.05	4.90	6.25	7.10	9.30	11.25	5		2	10
Niagara.....	N1 D1	45.79	238	1.20	2.15	1.50	2.25	3.00	3.10	3.75	4.80	5.40	7.10	8.60	3	1.5		10
Norwich.....	N10 D1	79.16	371	1.35	2.50	1.70	2.60	3.45	3.60	4.35	5.55	6.25	8.20	9.90	4		2	10
Oil Springs.....	N18 D3	11.34	89	1.60	3.00	2.00	3.10	4.10	4.30	5.20	6.60	7.50	9.80	11.90	6		2	10
Palmerston.....	N8 D6	23	11	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	5		2	10
Petrolia.....	N18 D5	10.64	46	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	6		2	10
Preston.....	N6 D1	94.94	725	1.55	2.85	1.95	2.95	3.90	4.05	4.90	6.25	7.10	9.30	11.25	3	1.5		10
Ridgeway.....	N14 D2	79.12	608	1.35	2.50	1.70	2.60	3.40	3.55	4.30	5.50	6.25	8.20	9.90	4		2	10
St. Jacobs.....	N7 D2	29.75	252	1.55	2.85	1.95	2.95	3.90	4.05	4.90	6.25	7.10	9.30	11.25	3	1.5		10
St. Marys.....	N9 D1	62.86	236	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	5		2	10
St. Thomas.....	N11 D1	114.55	891	1.35	2.50	1.70	2.60	3.45	3.60	4.35	5.55	6.25	8.20	9.90	3	1.5		10

RURAL POWER DISTRICTS—MILES OF LINES, NUMBER OF CONSUMERS AND RATES—OCTOBER 31, 1929
NIAGARA SYSTEM—Continued

Rural power district	Miles of line	No. of consumers	Rural rates														Gross consumption charge		Prompt payment discount
			Class and gross monthly service charge																
			1B	1C	2A	2B	3	4	5	6A	6B	7A	7B	1st 14 hrs. use of class demand min. 30 kw-hrs.	All additional				
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	cents	cents	%				
Saltfleet.....	84.41	917	1.35	2.50	1.70	2.60	3.40	3.55	4.30	5.40	6.20	8.10	9.90	3	1.5	10			
Sandwich.....	109.55	1,901	1.00	1.85	1.25	1.90	2.55	2.65	3.20	4.05	4.60	6.00	7.30	3.5	2	10			
Sarnia.....	78.78	956	1.35	2.50	1.70	2.60	3.40	3.55	4.30	5.50	.....	8.20	.....	4	2	10	
Scarborough.....	44.14	349	1.60	3.00	2.00	3.10	4.10	4.30	5.20	6.60	7.50	9.80	11.90	5	2	10			
Seaforth.....	9.00	112	1.10	2.00	1.35	2.10	2.75	2.85	3.45	4.40	5.00	6.55	8.00	4	2	10			
Simcoe.....	25.87	171	1.50	2.80	1.90	2.95	3.85	4.05	4.90	6.25	7.05	9.30	11.20	4	2	10			
Stamford.....	9.06	291	1.30	2.35	1.60	2.45	3.20	3.35	4.05	5.15	5.85	7.65	9.25	3	1.5	10			
Stratford.....	30.60	209	1.15	2.15	1.45	2.35	3.00	3.10	3.75	4.80	5.40	7.10	8.60	4	2	10			
Strathroy.....	24.04	93	1.65	3.00	2.05	3.15	4.10	4.30	5.20	6.60	7.50	9.85	11.90	6	2	10			
Streetsville.....	72.35	307	1.55	2.85	1.95	2.95	3.90	4.05	4.90	6.25	7.10	9.30	11.25	4	2	10			
Tavistock.....	49.39	222	1.45	2.65	1.80	2.75	3.65	3.80	4.60	5.90	6.65	8.60	10.55	5	2	10			
Thamesville.....	21.40	133	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	6	2	10			
Tilbury.....	22.65	115	1.70	3.15	2.15	3.30	4.35	4.50	5.55	7.00	7.90	10.40	12.55	5	2	10			
Tillsonburg.....	91.16	479	1.50	2.80	1.90	2.95	3.85	4.05	4.90	6.25	7.05	9.30	11.20	4	2	10			
Wallaceburg.....	51.21	380	1.35	2.50	1.70	2.60	3.40	3.55	4.30	5.50	6.25	8.20	9.90	4	2	10			
Walsingham.....	10.45	106	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	6	2	10			
Walton.....	21.86	166	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	6	2	10			
Watertown.....	27.06	277	1.20	2.15	1.50	2.22	3.00	3.10	3.75	4.80	5.40	7.10	8.60	3.5	1.5	10			
Waterford.....	39.10	129	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	5	2	10			
Watford.....	9.00	25	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	7	2	10			
Welland.....	172.25	1,919	1.00	1.80	1.25	1.90	2.50	2.60	3.20	4.05	4.55	6.00	7.05	3.5	2	10			
Woodbridge.....	147.52	779	1.45	2.65	1.80	2.80	3.65	3.80	4.60	5.90	6.65	8.75	10.60	3.5	2	10			
Woodstock.....	113.70	565	1.30	2.35	1.60	2.45	3.20	3.35	4.05	5.15	5.85	7.65	9.25	3	2	10			

Total, Niagara system....4,070.29 30,206

GEORGIAN BAY SYSTEM

Alliston.....	S32 D1	8.25	35	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	8	2	10
Arthur.....	E13 D2	.40	3	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	7	2	10
Barrie.....	S4 D1	18.81	144	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	5	2	10
Beeton.....	S33 D1	.33	1	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	8	2	10
Beaumaris.....	M7 D1	15.32	126	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	5	2	10
Bradford.....	S37 D1	.90	3	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	8	2	10
Buckskin.....	S24 D1	.94	14	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	8	2	10
Cannington No. 1.	W3 D1	3.25	23	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	6	2	10
Cannington No. 2.	W3 D2	4.40	21	1.45	2.65	1.80	2.75	3.65	3.80	4.60	5.90	6.45	8.75	10.60	6	2	10
Chatsworth.....	E3 D1	.00	20	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	8	2	10
Elmvale.....	S7 D1	.00	22	1.50	2.80	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.5	2	10
Flesherton.....	E1 D1	1.56	21	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	6.5	2	10
Georgina.....	W2 D2	9.50	83	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	6	2	10
Holstein.....	E7 D1	.00	1	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	8	2	10
Innisfil.....	S31 D1	20.12	206	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	8	2	10
Lucknow.....	E24 D1	.10	2	1.60	2.95	2.00	3.10	4.10	4.30	5.20	6.60	7.45	9.80	11.90	8	2	10
Mariposa.....	W9 D1	38.06	199	1.35	2.50	1.70	2.60	3.40	3.55	4.30	5.50	6.25	8.20	9.90	6	2	10
Markdale.....	E1 D2	1.22	2	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	6	2	10
Meaford.....	E14 D1	.66	2	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	7	2	10
Neustadt.....	E8 D1	.33	1	1.65	3.00	2.05	3.15	4.10	4.30	5.20	6.65	7.50	9.85	11.90	5	2	10
Nottawasaga.....	S5 D1	7.75	84	1.25	2.30	1.60	2.40	3.20	3.30	4.00	5.15	5.80	7.65	9.25	5	2	10
Orangeville.....	E12 D1	8.20	19	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	6	2	10
Port Perry.....	W7 D2	24.70	161	1.20	2.20	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	6	2	10
Ripley.....	E24 D2	.00	2	1.60	2.95	2.00	3.10	4.10	4.30	5.20	6.60	7.45	9.80	11.90	8	2	10
Shelburne.....	E10 D1	2.30	11	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	6	2	10
Sparrow Lake....	W1 D1	17.07	127	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	5	2	10
Stayner.....	S10 D1	12.25	395	1.25	3.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	2	10
Tara.....	E15 D1	19.95	91	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	8	2	10
Uxbridge.....	W7 D1	43.23	143	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	6	2	10
Walkerton Quarry	E26 D1	1.60	5	1.60	2.95	2.00	3.10	4.10	4.30	5.20	6.60	7.45	9.80	11.90	6	2	10
Wroxeter.....	E23 D1	14.00	104	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	8	2	10

Total, Georgian Bay system . . 275. 20 2,071

RURAL POWER DISTRICTS—MILES OF LINES, NUMBER OF CONSUMERS AND RATES—OCTOBER 31, 1929
ST. LAWRENCE SYSTEM

Rural power district	Miles of line	No. of consumers	Rural rates												Prompt payment discount	
			Class and gross monthly service charge										Gross consumption charge			
													1st 14 hrs. use of class demand min. 30 kw-hrs.	All additional		
			1B	1C	2A	2B	3	4	5	6A	6B	7A	7B			
Alexandria.....	7.50	33	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	8	2	10 1
Apple Hill.....	10.60	93	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	8	2	10 1
L3 D1	45.59	322	1.60	2.95	2.05	3.10	4.10	4.30	5.20	6.60	7.45	9.80	11.90	6	2	10 1
Chesterville.....	34.70	248	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	7	2	10 1
L5 D1																10 1
Martintown.....	12.73	106	1.83	3.18	2.35	3.92	5.16	5.56	7.04	8.70	10.72	12.93	15.75	8	2	10 1
L13 D1																10 1
Maxville.....	27.50	139	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	8	2	10 1
L14 D2																10 1
Prescott.....	27.49	121	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	7	2	10 1
L2 D1																10 1
Williamsburg.....	5.34	16	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	7	2	10 1
L7 D1																10 1

Total St. Lawrence system... 171.45 1,078

RIDEAU SYSTEM

Smiths Falls.....	H3	D1	34.80	227	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	6	2	10
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OTTAWA SYSTEM

Nepean.....	T1	D1	82.92	596	1.60	2.95	2.05	3.10	4.10	4.30	5.20	6.60	7.45	9.80	11.90	3	1.5	10
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CENTRAL ONTARIO AND TRENT SYSTEM

Belleville.....	C38 D1	34.74	419	1.20	2.15	1.45	2.25	2.95	3.10	3.75	4.80	5.40	7.10	8.60	5	2	10
Bowmanville.....	C23 D1	6.00	17	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	5	2	10
Campbellford.....	C11 D1	15.65	50	1.20	2.15	1.50	2.25	3.00	3.10	3.75	4.80	5.40	7.10	8.60	6	2	10
Cobourg.....	C13 D1	53.41	254	1.35	2.47	1.69	2.59	3.41	3.56	4.31	.....	6.22	.....	9.90	5	2	10
Colborne.....	C7 D1	10.00	71	1.65	3.00	2.05	3.15	4.10	4.30	5.20	6.65	7.50	9.85	11.90	5	2	10
Deseronto.....	C42 D1	.25	1	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	6	2	10
Kingston.....	C44 D1	37.06	215	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	5	2	10
Lakefield.....	C18 D1	.00	1	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	6	2	10
Millbrook.....	C25 D1	11.75	57	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	6	2	10
Napanee.....	C43 D1	9.74	16	1.35	2.50	1.70	2.60	3.45	3.60	4.35	5.55	6.25	8.20	9.90	6	2	10
Newcastle.....	C22 D1	15.90	66	1.35	2.50	1.70	2.60	3.40	3.55	4.30	5.50	6.25	8.20	9.90	6	2	10
Norwood.....	C31 D1	3.71	30	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	6	2	10
Oshawa.....	C24 D1	48.60	679	1.00	1.85	1.25	1.90	2.55	2.65	3.20	4.05	4.60	6.00	7.30	4	2	10
Peterborough.....	C20 D1	40.96	814	.63	1.16	.79	1.21	1.59	1.66	2.01	2.57	2.91	3.81	4.62	4	2	10
Pickering.....	C24 D2	12.30	150	1.65	3.00	2.05	3.15	4.10	4.30	5.20	6.65	7.50	9.85	11.90	4	2	10
Port Hope.....	C16 D1	9.64	38	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	5	2	10
Stirling.....	C35 D1	1.25	2	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	5	2	10
Trenton.....	C3 D1	1.80	28	1.35	2.47	1.69	2.59	3.41	3.56	4.31	.....	6.22	.....	9.90	5	2	10
Warkworth.....	C49 D1	.00	1	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	6	2	10
Wellington.....	C45 D1	17.33	92	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	6	2	10
Total, Central Ontario and Trent system.....		330.09	3,001														

NIPISSING SYSTEM

North Bay.....	Z4 D1	5.00	161	1.10	2.00	1.35	2.10	2.75	2.85	3.45	4.45	5.00	6.55	7.95	7	2	10
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Total, all systems: Miles of line..... 4,969.75 Number of consumers,..... 37,340

SECTION IV

HYDRAULIC ENGINEERING AND CONSTRUCTION

Construction work on five power developments was in progress during the past year. Of these, the greatest in magnitude, from the standpoint of capacity, is the addition to the Queenston development, where the plant is being completed by the installation of a tenth unit. This is followed closely, from the same standpoint, by the Alexander development on the Nipigon river. One development has been completed and brought into service in the Georgian Bay system and another in the Nipissing system, and there is being constructed a single unit development in the Patricia district on the English river at Ear falls.

Investigations are in progress on a number of other power sites. The first of these is at Chats falls on the Ottawa river, where a possible 200,000 horsepower can be developed. Preparations are also being made for the development of the power at Ragged rapids on the Muskoka river, to which reference was made in the last annual report.

The developments on the Muskoka river at Bala were purchased during the year, and rehabilitation was carried out to put certain parts of the hydraulic equipment in good operating condition. Rehabilitation was also effected on some of the hydraulic structures of the undertaking serving the Wahnapiatae district, control of which was obtained by the Commission during the year. In order to provide means of transport for mining developments at Red Lake, in the district of Patricia, the Department of Northern Development of the province of Ontario arranged to have built a number of marine railways on the Chukuni and English rivers, whereby freight may be taken from Hudson, on the Transcontinental railway, directly to Red lake, with trans-shipment only at Ear falls on the English river. The design and supervision of construction of the marine railways were carried out for the Department of Northern Development by the Commission. The Ear falls storage dam at the outlet of Lac Seul, construction of which was commenced last year, was brought into service during the summer of 1929, the engineering in connection with this structure being carried out by the Commission for the Department of Lands and Forests.

NIAGARA SYSTEM

Queenston-Chippawa Development

The decision was reached last year to add a tenth and last unit to the Queenston development. This unit, which is to have a rated capacity of 58,000 horsepower under a head of 294 feet, will be similar, in most respects, to units Nos. 6 to 9 in the same development. Operating experience during the past few years has indicated the necessity of having an additional unit, in order to provide spare capacity during periods of shut-down of other units for maintenance work. When all ten units are available for service, the plant capacity will be increased, although not to the extent of the full rated capacity of the unit. It is estimated that the increased continuous capacity of the plant will be some 12,000 horsepower; but the main advantage of the unit is in its assurance of continuous service at the full capacity for nine units, with one unit out of service for maintenance or repairs.

The installation from forebay to tailwater is similar to that for units Nos. 6 to 9. An extension of the forebay to the north of the No. 9 intake is necessary, the floor of this extension of the forebay being slightly higher than the floor of the remainder. As in the case of units Nos. 6 to 9, the penstock for unit No. 10 is 16 feet in diameter throughout and is equipped with a 16-foot by 10-foot Johnson valve. The turbine is being built by the Dominion Engineering Works of Montreal. Only one change of importance is to be noted in the hydraulic equipment, namely, in the governor, which is of the Morris-Pelton type with motor driven flyballs, the first with this type of drive to be used at Niagara falls.

Construction work commenced at the beginning of January on the extension of the screen house. In the completion of the substructure of the screen house for nine units, provision was made for the convenient extensional work by the building of a small arch dam at the north-east end of the forebay, behind which a small amount of rock excavation was done. It was possible thus to excavate for the extension of the screen house without serious difficulty or danger from water, an important consideration, as the excavation had to be carried down some 45 feet below the operating level in the forebay. The first operation was the construction of the extension of the screen house. This being completed and the steel headgates being in place, the work on the penstock tunnel and trench and power house substructure continued thereafter without danger of flooding from water in the forebay. At the present time, the substructure of the power house is completed, and the turbine and penstock are being installed. This unit will come into service during the summer of 1930.

GEORGIAN BAY SYSTEM

Trethewey Falls Development

The application of "remote control" in the operation of hydro-electric power stations makes possible the utilization of many small water powers which otherwise would be outside the range of economic development. This method of operation not only makes a marked saving in operating charges, but by centralizing the control of the output of power in the hands of one operator,

makes possible the most efficient use of the water. This is particularly true where several developments are situated on the same stream.

One of the latest plants with remote control equipment, recently put into commercial service by the Commission, is that at Trethewey falls on the South Muskoka river. This plant lies immediately above the Hanna Chute station, which was placed in service in October of 1926. Downstream again from Hanna Chute is the South falls station, where the control of all three plants is centralized. A total head of 170 feet is now developed on this stretch of river.

The water discharged from the Trethewey falls plant passes directly into the forebay or headpond of the Hanna Chute station, and that in turn discharges into the headpond of the South Falls plant. Very little pondage is available at Trethewey falls or South falls, while Hanna Chute possesses a large headpond on which fluctuations in load are easily taken up without much change in level. It is thus evident, in order to obtain the most economical use of water by the three stations, that centralization of control is very desirable and necessary.

A very comprehensive storage system has been installed on the lakes above these three plants, the principal ones being Lake of Bays and Hollow lake. The flow of the river has thereby been substantially improved by these storage reservoirs, so that much greater loads than under natural conditions can be carried by the plants.

The natural head at Trethewey falls was about 24 feet, and the development consists essentially of a concrete dam and power house across the river at the head of the falls, which raises the water 11 feet, giving a total operating head of 35 feet for the plant. The dam consists of three stop-log sluiceways in the river channel, flanked by spillway sections 75 feet long on either side, and a wing wall on the west bank extending from the power house to the high ground above. The power house substructure is of reinforced concrete construction, and contains one 2,300 horsepower turbine, with propeller type runner, which was supplied by S. Morgan Smith-Inglis Company, Limited. A short tail-race channel carries the water across a neck of land to the pool level below. The unit is controlled by a Woodward governor, having the necessary automatic and remote control attachments to enable operation from South Falls. A headwater gauge, similar to the one at Hanna Chute, is being installed, with a duplicate recording instrument at South falls. Thus, the chief operator has before him indications of the headwater levels at the three plants, and can balance the loads to derive the most benefit from the water supply.

A gantry crane of five-ton capacity is installed on the headworks deck for handling the racks and the steel sectional gates; these gates may be used for unwatering the turbine pit.

The new headwater level required the raising of one highway bridge about 6 feet, and the raising of more than a mile of road to a maximum height of 3 feet. A timber log slide has been provided immediately adjacent to the power house.

This station was placed in active service in September, 1929, about one year after the commencement of construction operations by the Construction department of the Commission.



TRETHEWEY FALLS DEVELOPMENT—SOUTH MUSKOKA RIVER

General view showing sluiceways, spillway, wing dam, power house and forebay



TRETHEWEY FALLS DEVELOPMENT—SOUTH MUSKOKA RIVER

Main dam sluiceways

Bala Electric Light and Power Company

The purchase was completed in April, 1929, of the assets of the Bala Electric Light and Power Company. This company owned two power developments at Bala, the first of which contained two units rated at 150 horsepower each, and the second, one unit of 450 horsepower. These generated power for distribution in Bala, Port Carling and the districts surrounding these municipalities. The operation of the plants and system was taken over at that time, and minor repairs made on some of the structures and equipment at plant No. 2. The possession of these plants will be advantageous in the operation of future developments on the Muskoka river immediately downstream. They also serve small but important districts, which now become a part of the Georgian Bay system.



ALEXANDER DEVELOPMENT—NIPIGON RIVER
Core-wall trench in auxiliary dam

THUNDER BAY SYSTEM

Alexander Power Development

The rapidly growing demand for power on the Hydro-Electric Power Commission's Thunder Bay system has necessitated the early completion of the Alexander Power development on the Nipigon river. Already the Cameron Falls generating station, of 75,000 horsepower capacity, has been carrying loads in excess of its rated capacity. About two-thirds of the power output is used by the pulp and paper mills in the district, while the remaining one-third is made up of elevator load and domestic loads in Port Arthur and Fort William.

The Alexander development is situated about one and a half miles below the Cameron Falls plant, and construction work was first started here in the spring of 1927. At the end of that year it was decided to discontinue operations, as the output of the pulp and paper mills had been curtailed, with consequent reduction of power requirements. During 1927 a great deal of preliminary work was done, including the construction of a railway line from Cameron Falls to the site, excavation of the diversion channel, and partial completion of



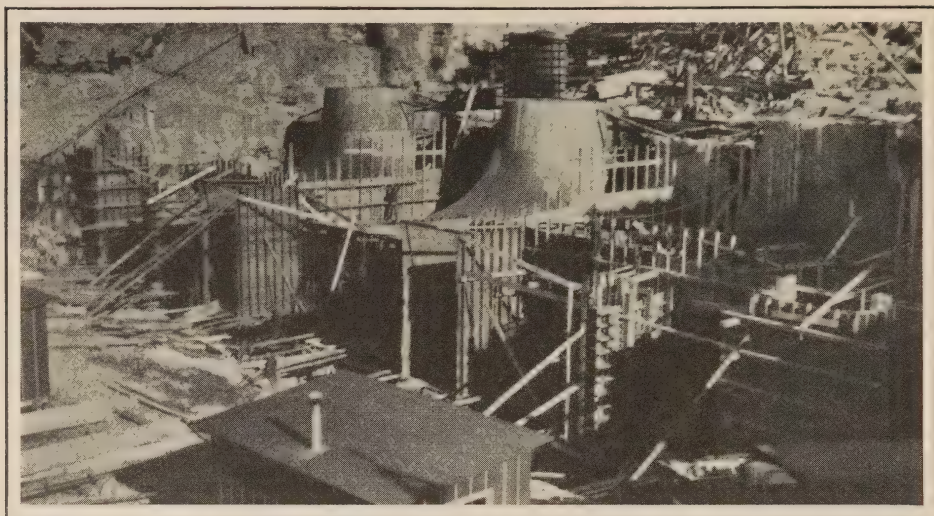
ALEXANDER DEVELOPMENT—NIPIGON RIVER

Excavation on site of main dam. A semi-hydraulic fill will be built, after excavation to good foundation, between the toe fills at right and left

the main cofferdam. The railway line involved building two bridges, one across the Nipigon river near Cameron falls, and the other across Fraser creek at the lower end.

Before proceeding with a description of the Alexander development itself, a few remarks about the Nipigon river may be of interest. The area drained by this great river is more than 9,000 square miles, and the area of lake Nipigon itself is about one-sixth of this, or 1,500 miles square. Under natural conditions, the outflow from lake Nipigon was remarkably uniform for a river of this size, and by the construction of the dam at Virgin falls in 1925, control of the outflow was obtained. The average flow exceeds 7,000 cubic feet per second, and complete regulation can be obtained with a variation in lake level between the natural high and low water levels. The total drop in elevation between lake Nipigon and lake Superior is 248 feet, and this drop occurs in 32 miles of river channel. With Cameron falls (78-foot head and Alexander (60-foot head) developed, there will remain some 110 feet undeveloped. Of this 110 feet, 105 feet occurs between Cameron falls and lake Nipigon, and is capable of complete development, while the remaining 5 feet or so occurs as river gradient between Alexander and lake Superior, and cannot be economically recovered.

The location of the new development is at Alexander rapids, where the river takes a sharp "S" bend and discharges into a quiet pool or widening of the river. An earth fill dam across the river near the lower end of the rapids will raise the level about 60 feet and flood back to the tailwater level of Cameron falls. Thus, nearly all the head here is artificial, while at Cameron falls a large portion of the head was natural. A channel, the upper part in earth and the lower part in rock, is being excavated across the neck of land formed by the turn in the river, to supply water to the power house which is located on the shore of the pool near the Alexander landing dock. A portion of this channel also serves as the diversion channel to bypass the water during the construction of the main dam. A concrete spillwall, 560 feet long, connects up the end



ALEXANDER DEVELOPMENT—NIPIGON RIVER
Power house construction—Forms for draft tubes—October, 1929

of the dam with the power house on the south side, and an earth embankment on the north side is required to join the power house with the adjacent high land and close the contour.

The main dam is being constructed by the semi-hydraulic fill method, which consists essentially of dumping earth at the two sides of the dam, and washing the finer particles to the centre, by means of monitors, to form an impervious core. A heavy rock fill embankment on the downstream side provides adequate support and drainage for the earth fill. In all, about 500,000 cubic yards of earth will have been placed in the dam on completion.

Very little pondage is available between Alexander and Cameron falls to take care of changes in load, but if the two plants are operated in parallel, the large headpond at Cameron falls of over four square miles in area will also serve the Alexander plant and reduce fluctuations in level to a minimum. Any rise in level, however, will be taken care of automatically by the long concrete spillwall between the dam and the power house.

The power house will be of reinforced concrete construction, and in all will contain about 30,000 cubic yards of concrete. Installed in it will be three 18,000 horsepower units, and provision will be made for a fourth unit when the load justifies its installation. The superstructure will be of brick, and an outdoor transformer station will be located to the north of the power house.

The Nipigon river is justly famous for its trout fishing, and to help preserve this sport, a fish ladder will be provided. This will be of similar design to the one at Cameron falls, which is approved by the Provincial Game and Fisheries department. It is believed that these fishways provide a satisfactory passage for the fish in their annual upstream migration.

Construction, under the jurisdiction of the Commission's Construction department, has been prosecuted vigorously during the past season, and will be continued throughout the winter and ensuing year. It is expected that the plant will be carrying its share of the load to the Twin Cities before the end of 1930.



ELLIOTT CHUTE DEVELOPMENT—SOUTH RIVER

Main dam from upstream side. Water surface about six feet below normal level



ELLIOTT CHUTE DEVELOPMENT—SOUTH RIVER

Main dam and penstock from downstream side

OTTAWA SYSTEM

Some years ago the Commission served notice of expropriation upon certain of the power sites at Chats falls on the Ottawa river. The title to these power sites passed to the Commission during 1929, and as they round out the control of the Commission in all of the Ontario portion of the power rights, it is possible to proceed with the development of this site in conjunction with a privately-owned corporation, which will develop the Quebec portion of the power. It is hoped that satisfactory arrangements, as to development of the whole scheme, can be made and the work permitted to proceed.

According to present plans, there will be installed in the Ontario section, three units of 30,000 horsepower, with provision for a fourth unit. The site is well adapted for an economic development, in spite of the fact that the dam is a very extensive structure. However, the location chosen for the dam is such that it will nowhere be very high, and its cost, therefore, is not excessive. The flow of the Ottawa river is regulated to quite a degree by storage works on the main river and on certain of the tributaries above Chats falls, so that a well-sustained flow in dry years may be depended upon; and, in addition to this, the extent of Chats lake, which has an area of 18,600 acres, provides pondage for daily and weekly regulation to suit the load demands on the plant.

NIPISSING SYSTEM

Elliott Chute Development

The Elliott Chute development on the South river, about two miles upstream from Bingham Chute, came into service in October, 1929. This development, which has a capacity of 1,800 horsepower under 39-foot head, is similar in some respects to the Trethewey development, in that it is a single vertical unit plant operated by remote control from Bingham Chute. The headpond of the plant has a capacity of 5,000 acre feet, and the storage in this headpond was the essential part of the development, as without additional storage it was becoming increasingly difficult to operate the Bingham Chute and Nipissing plants effectively. Relocation of certain of the Township roads and construction of bridges thereon were involved in the building of this plant.

MADAWASKA SYSTEM

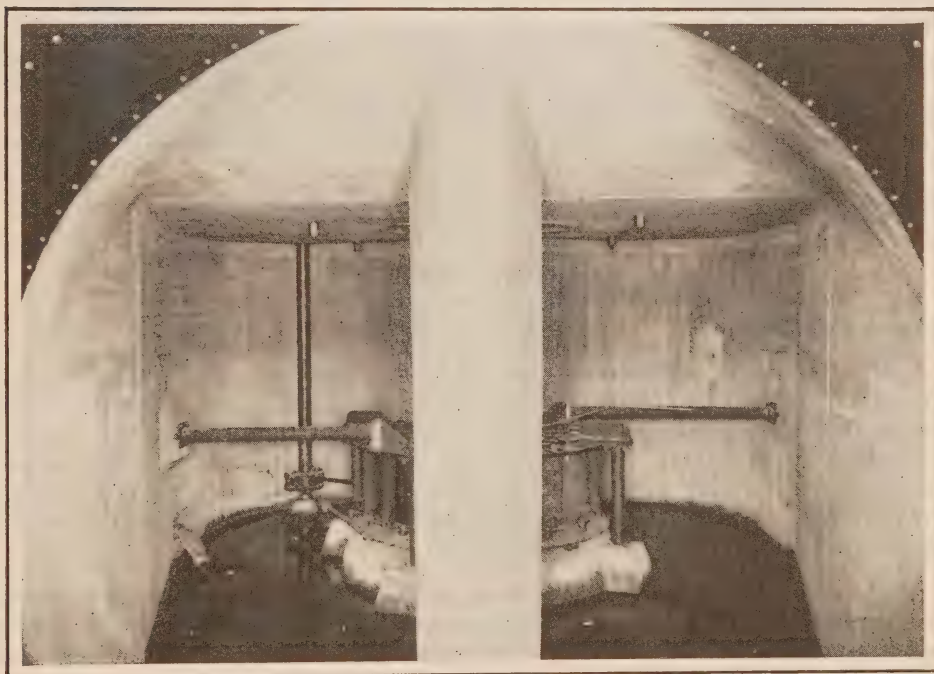
During the past year the Commission purchased properties from the M. J. O'Brien Company, including power developments on the Mississippi and Madawaska rivers, undeveloped sites on the Madawaska, transmission lines, distribution systems and franchises in Renfrew and other municipalities.

The development at Galetta on the Mississippi river has an installed capacity of 1,400 horsepower. From it there are transmission lines to Arnprior, Galetta, Carp, Kinburn, and other nearby points. At Calabogie, on the Madawaska river, there is an installation of 6,000 horsepower, with an additional 3,000 horsepower awaiting completion. Power from this plant is distributed in Renfrew, Calabogie, and six other municipalities.



ELLIOTT CHUTE DEVELOPMENT—SOUTH RIVER

New township road built to replace road closed by storage reservoir



ELLIOTT CHUTE DEVELOPMENT—SOUTH RIVER

Interior of flume from pipe line, showing turbine

There are also in the properties purchased, four undeveloped sites on the Madawaska river, at Claybank, Stewartville, Burnstown and High Falls, having a combined capacity of 85,000 horsepower. Possible storage developments on the river make these sites of great potential value for future development. Investigations respecting existing and future developments, and the hydraulic characteristics and storage possibilities of the river, have been carried on throughout the year, and are continuing.

WAHNAPITAE DISTRICT

The Commission recently obtained, by stock purchase, a controlling interest in the Wahnapiatae Power Company. This company owns and operates three hydro-electric plants on the Wahnapiatae river, with transmission lines to Sudbury and a number of mining and metallurgical works. The total installed capacity is 15,700 horsepower.

The three developments are similar in style, each having headworks at the end of the dam, with a short canal conducting the water to short penstocks.

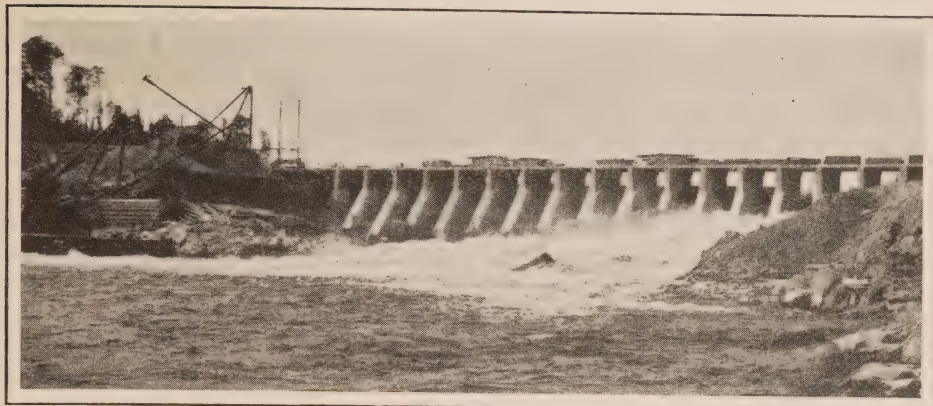
No. 2 plant, at McVitties, is furthest upstream, and contains two 1,200 horsepower turbines operating under a head of 38 feet. Next in order is the original plant, commenced in 1904, with a single unit of 1,200 horsepower capacity, and enlarged in 1908 and 1915 to a total capacity of 6,300 horsepower in three units, under a head of 52 feet. This development is situated at Coniston, about eight miles east of Sudbury. About six miles downstream from Coniston is plant No. 3, completed in 1924, with two units of 3,500 horsepower capacity each, under a head of 54 feet. Storage works are in course of construction at the outlet of lake Wahnapiatae, about twelve miles upstream from plant No. 3. A side dam was built at plant No. 2, replacing one built about eighteen years ago. Growing load demands in the district will require the completion of the storage works and the installation of an additional unit at plant No. 2.

PATRICIA DISTRICT

Ear Falls Development

The Ear Falls conservation dam, to which reference was made in the last annual report, was completed during the spring of 1929, and a portion of the spring flood was stored in Lac Seul. At the present time the outflow is being controlled by the dam. The cost of the conservation dam here was shared by the provincial governments of Manitoba and Ontario, and by the Dominion Government, as power sites controlled by all of these will benefit from the regulation of the flow on the English river.

The magnitude of the storage basins in this part of the Province is immense, and comparable to artificial storage created in other parts of the Dominion and in other parts of the world. The capacity of Lac Seul between minimum and maximum levels that it is intended to use for storage is 145,000,000,000 cubic feet. Lake Nipigon has a capacity twice this, and Lake of the Woods is another basin with immense storage capacity. To give scale to these storage



NORTHERN ONTARIO DEVELOPMENT

Ear Falls dam at outlet of Lac Seul Power house construction proceeding at left

developments, they may be compared with some of the other outstanding storage basins at present in use, as in the table below:

Storage Reservoir	Capacity of Reservoir (acre feet)
Assuan (Egypt).....	1,800,000
Elephant Butte (Texas).....	2,640,000
Gatun (Panama).....	4,200,000
Gouin (Quebec).....	3,700,000
Lac Seul (Ontario).....	3,300,000
Nipigon (Ontario).....	6,700,000

Lac Seul and Lake Nipigon are both extremely cheap storage developments when compared with others, in their cost per acre foot.

In the design of the conservation dam at Ear falls, provision was made for the future development of water power, if a demand for this should arise, and as this demand was already in evidence by the beginning of the year, in order to provide power for mining developments at Red lake, construction was commenced of a single unit plant, with a capacity of 5,000 horsepower. The ultimate capacity of the site is about 30,000 horsepower under a head of 36 feet, and the present unit is so laid out that it will form a part of the complete development when additional power is required in that locality. The present scheme provides two wood stave pipe lines, 12 feet in diameter, about 137 feet long, by which water supplied for the turbine will be carried from the power sluices at the dam to a pressure flume, in which a single vertical turbine is installed. The turbine unit will have a rated capacity of 5,000 horsepower under a head of 36 feet, at a speed of 180 revolutions per minute, is of the propeller type, and was built by the Dominion Engineering Works of Montreal. A transformer station is being built to step up the power for transmission to the Red Lake district about forty miles distant.

Transportation Route—Hudson to Red Lake

The Commission's engineers assisted the Department of Northern Development of the province of Ontario by taking charge of the design and construction of a group of marine railways on the English and Chukuni rivers. These make it possible to carry freight from the Transcontinental railway at Hudson into Red lake, with trans-shipment at Ear Falls only. The total distance travelled by craft proceeding from Hudson to Red lake is about 160 miles, and in this distance there is a transfer railway to permit them to lower the cargo from the level of Lac Seul at the Ear Falls dam to the English river below the dam, whence loaded scows proceed down the English river and up the Paqwash and Chukuni rivers, on which, at various places, there are four marine railways designed to handle scows of the maximum capacity in use. These railways have been working satisfactorily for the navigation season of 1929, and more than 3,000 tons of equipment and supplies have been transported over the route at a very considerable saving in transportation costs.

HYDRAULIC INVESTIGATIONS**St. Lawrence River**

Some months ago, the chief engineer and the chief hydraulic engineer of the Commission were appointed a body by the Ontario government to co-operate with the Canadian section of the Joint Engineering Board dealing with the St. Lawrence development, to the end that some scheme of power development of the International section of the river, mutually agreeable to the interests represented by these groups, might be arrived at. Several conferences have been held, and variations in the proposed schemes of development discussed, investigated and compared, to the end that general plans as to developed head, location of structures, etc., might be agreed upon. This work also is proceeding at the present time.

SECTION V

ELECTRICAL ENGINEERING AND CONSTRUCTION

(STATION SECTION)

NIAGARA SYSTEM

Generating Stations on the Niagara River

Queenston generating station is being extended to include No. 10 unit. A 55,000-kv-a. generator, a bank of three 18,330-kv-a. transformers, two 135,000-volt oil circuit-breakers and other necessary switching equipment have been purchased. As this is the final extension to the station, permanent end walls will be erected for both the power-house and screen-house. The work should be completed and the unit in service before the fall of 1930.

Transformer and Distributing Stations

Niagara District—A new outdoor 110,000-volt transformer station has been erected on the Commission's right-of-way near the American Cyanamid Company's plant to supply this Company with power. Three banks of 7,500-kv-a., single-phase transformers obtained from Niagara transformer station were converted to outdoor type for this installation.

Authorization has been given for the purchase and installation of four oil circuit-breakers on outgoing 110,000-volt lines, for the installation of an outdoor 110,000-volt bus and for the re-locating of the existing outdoor line oil circuit-breakers at Niagara transformer station.

Authorization was given for the construction of an outdoor 110,000-volt transformer station at Port Colborne near the International Nickel Company's plant. The installation will consist of two banks of transformers and a spare unit, together with 110,000-volt switching equipment for the incoming line and transformers, and 13,200-volt switching equipment for the outgoing feeders. Seven 5,000-kv-a. single-phase, self-cooled transformers have been purchased.

At both Welland and Thorold transformer stations load conditions necessitated the installation of additional transformer capacity. A new bank of three 5,000-kv-a. single-phase units was installed at each station. The bank at Welland has already been placed in service while the bank at Thorold will be

in service by the middle of November. Two additional 12,000-volt feeders were installed at the Welland station to permit power to be supplied to Port Colborne at 12,000 volts.

Engineering assistance was given to the municipality of Merritton respecting the purchase and installation of a 1,500-kv-a. three-phase transformer and other necessary equipment to provide additional capacity at its station. Assistance was likewise given to the municipality of Niagara-on-the-Lake, where a second 300-kv-a. three-phase transformer and additional 13,200-volt and 2,300-volt switching equipment was installed. Improvements were made on the equipment for metering the Stamford township load. The municipality of Stamford township was given engineering assistance respecting the purchase of a 1,500-kv-a. three-phase transformer and additional switching equipment. The necessary equipment for metering the load at the Queenston Quarries Company's new station near St. Davids was purchased and installed.

Hamilton and Dundas District—A third bank of three 5,000-kv-a. transformers was installed at Hamilton transformer station, and 13,200 volt metal-clad switching equipment for four circuits has been purchased. Authorization was also given to install steel structures and switching equipment to provide for one additional 110,000-volt incoming line. Work on this is not yet completed.

Authorization has been given for the installation of a second bank of three 5,000-kv-a. transformers in Dundas transformer station, also two 13,200-volt feeders to supply power to Hamilton. The transformers have been ordered.

A new pole-type station known as Vinemount distributing station was installed, consisting of a bank of three 150-kv-a. transformers with the necessary switching equipment and metering. Meter changes were also made at Waterdown distributing station.

Toronto and York District—At Toronto-Bridgman transformer station, work was commenced on the replacement of four oil circuit-breakers in the 110,000-volt line position with breakers of greater interrupting capacity. Three of these have already been changed.

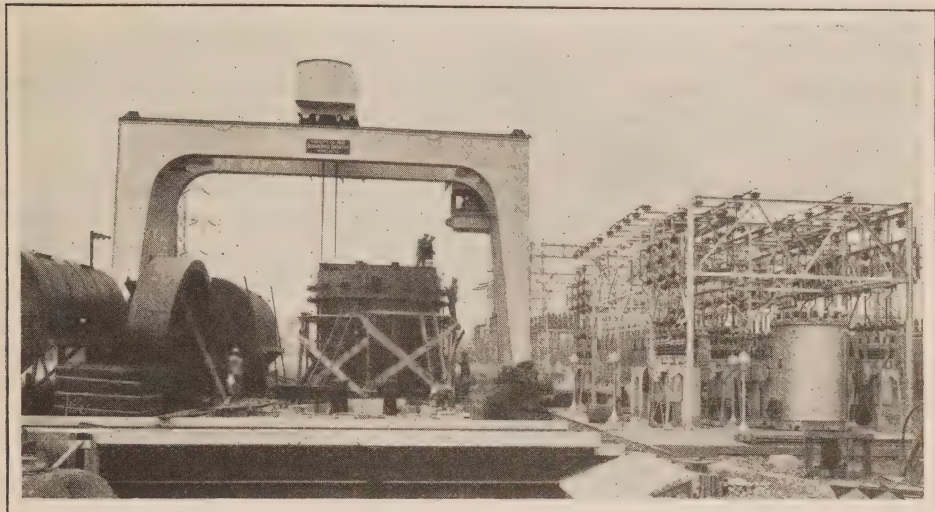
At Toronto-Wiltshire transformer station increased capacity was provided by the installation of a fourth bank of three 5,000-kv-a. transformers with the necessary 110,000-volt and 13,200-volt switching equipment.

Toronto-Leaside Transformer Station

Engineering and construction work has been continued on the Toronto-Leaside transformer station throughout the year. The first two 25,000-kv-a. synchronous condensers are being installed and additional apparatus has been ordered.

Orders have been placed for the third and fourth bank of transformers which will be duplicates of the first two banks and for two more synchronous condensers duplicates of the two now being installed, also four more 220,000-volt oil circuit-breakers.

An 80-ton gantry crane has been purchased and erected for use in the installation of the condensers, the first two of which will shortly be in operation.



TORONTO-LEASIDE CONDENSER STATION

View from east, October, 1929

The programme for the coming year includes the installation of all the above apparatus on order, also the necessary 110,000-volt and 13,200-volt switching equipment, control and service equipment to complete the station to 180,000-kv-a. capacity. A despatcher's board will also be installed which will represent in miniature the 220,000 and 110,000-volt lines and stations supplying the Toronto district.

At New Toronto distributing station increased transformer capacity was obtained by the installation of one new 3,000-kv-a. three-phase transformer inside the building, replacing a 1,500-kv-a. three-phase unit, and by the installation of a bank of three 1,500-kv-a. single-phase units outside the building. A spare 3,000-kv-a. outdoor transformer was also purchased. These changes necessitated the erection of steel structures and extra switching equipment and the installation of a cooling tower. The municipality of Mimico was given engineering assistance in the purchase, test and installation of one 1,500-kv-a. three-phase transformer with the necessary switching equipment.

Scarborough township and Albion Park distributing stations are two semi-outdoor installations which were placed in service this year. The former comprises a bank of three new 1,000-kv-a. single-phase transformers and the latter two 300-kv-a. three-phase units released from Etobicoke township distributing station. At Mount Joy distributing station one of the 150-kv-a. three-phase transformers was replaced by a bank of three 150-kv-a. single-phase units. Blantyre distributing station was dismantled and the three 300-kv-a. transformers transferred to reserve equipment. At Newmarket distributing station improved voltage conditions were obtained on the Newmarket 4,000-volt feeder by the installation of a bank of three 37½-kv-a. transformers as boosters. Six old 300-kv-a. single-phase transformers at York Mills distributing station are being rebuilt with new windings of modern design.

London District—The capacities of Broughdale and Glendale distributing stations have been increased by the installation of a bank of three 250-kv-a. transformers in each station, replacing the original 150-kv-a. units.

Kitchener District—At Elmira distributing station the capacity was increased by the installation of a bank of three 500-kv-a. transformers to replace the original 250-kv-a. units.

Stratford District—The capacity at Stratford transformer station was again increased by replacing the 1,250-kv-a. transformers in bank No. 1 with three 2,500-kv-a. units which had been rebuilt from transformers similar to those removed. The cooling water-pumps were replaced by larger capacity units.

Changes in the district served by this transformer station include the installation of lightning arresters at Dublin, Milverton and Tavistock distributing stations and the replacement of the 150-kv-a. three-phase transformer at Walton distributing station by three 150-kv-a. single-phase units. Assistance was given to the municipality of Goderich in the purchase and installation of a bank of three 500-kv-a. transformers together with changes and additions to the 26,400-volt and 4,000-volt equipment and feeders.

Woodstock District—Changes were made to the 13,200-volt metering equipment in Woodstock transformer station in order to measure power delivered to the Dufferin Construction Company at its Innerkip quarry. Engineering assistance was given the municipality of Woodstock in the purchase of a bank of three 500-kv-a. transformers and switching equipment.

St. Thomas District—Changes authorized for St. Thomas transformer station in 1927, and partly finished in 1928, included increased transformer capacity and improved relay protection. This work was completed this year. A new 110,000-volt oil circuit-breaker was installed and the station was arranged to accommodate the new line from Niagara.

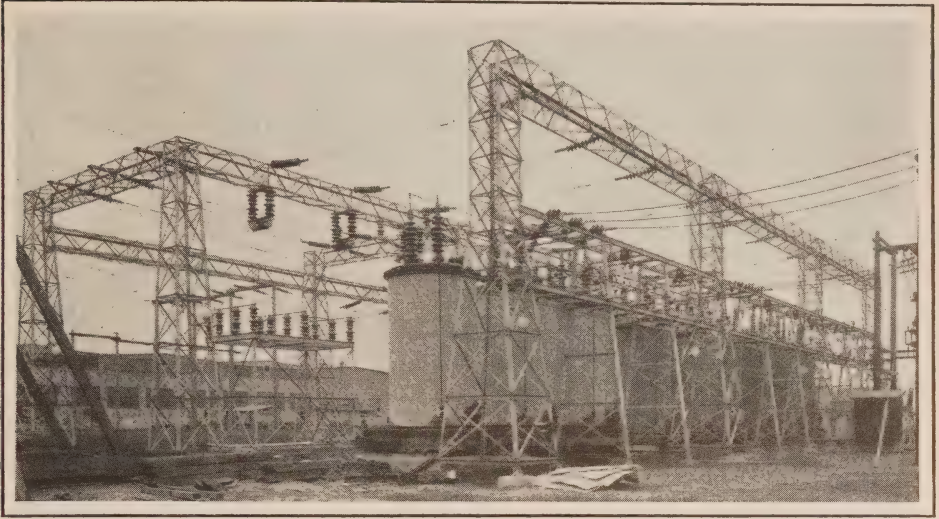
At West Lorne distributing station equipment for a new rural feeder with the necessary metering was installed.

Brant District—Changes in equipment at Brant transformer station include the installation of improved heavy-capacity oil circuit-breakers in three of the 26,400-volt feeders, in place of the original lighter-duty breakers.

Improvements were made in the metering to totalize the Plattsville and Princeton feeder load at Drumbo distributing station and lightning arresters were installed on the 26,400-volt incoming line. Arresters were also installed in a similar position at Waterford distributing station.

Kent District—Due to the shifting of the load centre, Fletcher distributing station was dismantled and a new pole-type station was installed at Merlin, consisting of a bank of three 150-kv-a. transformers and two outgoing 8,000-volt feeders. At Tilbury distributing station increased transformer capacity was provided by the installation of an additional bank of three 75-kv-a. single-phase transformers. Lightning arresters were also installed on the incoming 26,400-volt line at this station and at Rondeau distributing station.

Essex District—Two new 26,400-volt stations known as Ford City and LaSalle distributing stations were installed in this district. The former is a semi-outdoor installation with a transformer capacity of one 3,000-kv-a. three-



NIAGARA SYSTEM

American Cyanamid 110,000-volt transformer station

phase unit while the latter is a pole-type installation with a transformer capacity of three 150-kv-a. units. Leamington distributing station capacity was increased by the installation of three 500-kv-a. transformers replacing the original 250-kv-a. units. Engineering and construction work was done for the Union Natural Gas Company on the installation of a pole-type station consisting of three 150-kv-a. transformers with the necessary switching equipment. Work was similarly done for Walkerville on the installation of an additional 3,000-kv-a. three-phase transformer, the rearrangement of the station wiring and the replacing of original 4,000-volt oil circuit-breakers with heavier duty units in the Walkerville municipal station. Engineering assistance was given Windsor Hydro-Electric system in the purchase and test of an additional 3,000-kv-a. three-phase transformer and additional switching equipment. Work was done on metering installations at Walkerville Junction distributing station and Walkerville municipal station No. 2, at the Canadian Steel Corporation-Ojibway and the Union Natural Gas Company stations.

St. Clair District—At Watford distributing station, the capacity was increased by replacing the 150-kv-a. three-phase transformer with a 300-kv-a. unit. Changes were made to the equipment metering the loads to Brigden and to the Ontario Supply and Transport Company.

GEORGIAN BAY SYSTEM

Severn Division

The three 40-kv-a. transformers at Coldwater distributing station were replaced by three 150-kv-a. units.

Eugenia Division

At Eugenia generating station a 1,500-kv-a. synchronous condenser transferred from Peterborough Railway converter station was installed and placed in operation for regulating the voltages on the interchange of power between the Severn and Eugenia divisions. Two 1,500-kv-a. auto-transformers were purchased and will be installed for additional voltage regulation.

At Holland Centre a new pole-type distributing station with one 10-kv-a. single-phase transformer was installed.

At Meaford distributing station the 300-kv-a., three-phase transformer was replaced by a bank of three 250-kv-a. single-phase units. The 300-kv-a. unit taken from Meaford was installed at Holyrood distributing station to replace the bank of three 50 kv-a. transformers.

Wasdells Division

To provide for direct transfer of power between the Muskoka and Wasdells divisions a 1,500-kv-a., 38,000/22,000-volt, three-phase auto-transformer was installed at Wasdells Falls generating station. At Pinedale distributing station the 75-kv-a. three-phase transformer was replaced by a 150-kv-a. unit.

Muskoka Division

The Trethewey falls generating station was placed in service in September with remote control from South falls generating station. The generating capacity of the system was thereby increased by 2,000-kv-a.

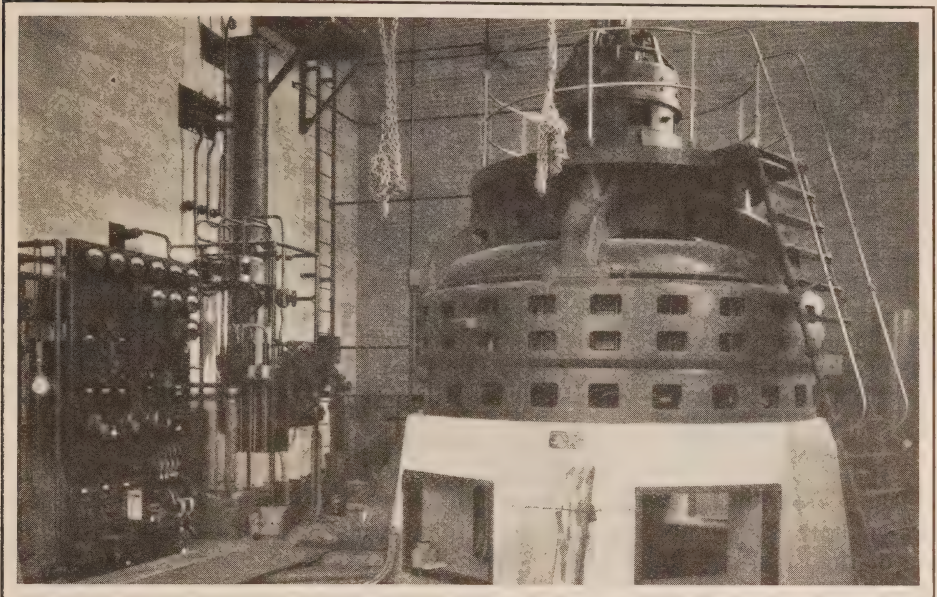
ST. LAWRENCE SYSTEM

Increasing load demands throughout this district were met by the installation of a new pole-type station known as Lyn distributing station—consisting of a bank of three 100-kv-a. transformers with switching and metering equipment—and by the installation at Cornwall Howard Smith Paper Company distributing station, of an additional 750-kv-a. three-phase transformer.

RIDEAU SYSTEM

A 300-kv-a. three-phase transformer was installed on the site of the Smiths Falls transformer station and is known as Rideau temporary transformer station. It will serve as a connecting link between the Rideau system and the new eastern high-voltage transmission line. A pole-type station known as Forfar distributing station with one 100-kv-a. transformer was installed.

Increased transformer capacity was provided at Kemptville distributing station by replacing the 150-kv-a. transformer with a 300-kv-a. unit.



TRETHEWEY FALLS DEVELOPMENT—SOUTH MUSKOKA RIVER
Generating station interior—September, 1929

THUNDER BAY SYSTEM

Generating Stations on the Nipigon River

Due to the load demands on this system developing rapidly in the past year, the equipment at Cameron falls generating station has become loaded to capacity and it was necessary to proceed with the work at Alexander power development which was deferred in 1927. An order has been placed for three 15,000-kv-a generators and construction work will proceed so that the station will be ready for service in time for the peak load in the fall of 1930.

Transformer and Distributing Stations

Outdoor switching equipment is being installed at Port Arthur transformer station to provide for a third 110,000-volt incoming line.

OTTAWA SYSTEM

The capacity of Nepean Rural Power District distributing station was increased by replacing the three 75-kv-a. single-phase transformers with three 200-kv-a. units.

CENTRAL ONTARIO AND TRENT SYSTEM

Generating Stations

The four 1,125-kv-a. transformers which had been in operation at Seymour generating station since it was first placed in service were replaced by two new 3,000-kv-a. transformers.

Transformer and Distributing Stations

A new pole-type station consisting of three 100-kv-a. single-phase transformers to serve the Cobourg rural power district was installed at the Cobourg distributing station site. Other new stations include Kingston switching station and Oshawa condenser station. In the latter case a 5,000 kv-a. synchronous condenser with regulator and switching equipment was purchased and installed for regulating the voltage at Oshawa.

Increased transformer capacity was provided at several points, namely, at Kingston distributing station by installing one 1,500-kv-a. three-phase transformer replacing a 750-kv-a. unit; at Napanee distributing station by replacing one of the 300-kv-a. units with a 750-kv-a. transformer; at Newcastle by the replacement of a 100-kv-a. unit with one of 300-kv-a. capacity; at Norwood by the installation of an additional 300-kv-a. transformer obtained from Picton distributing station where it was replaced by a 750-kv-a. unit; and at Port Hope distributing station by replacing the 300-kv-a. transformer with one of 750-kv-a. capacity.

Assistance was rendered to the municipality of Whitby in the purchase and installation of a second 750-kv-a. transformer with switching equipment.

Additional feeder equipment was installed in Bowmanville and Lindsay and metering changes were made at the latter station and at Sulphide distributing station.

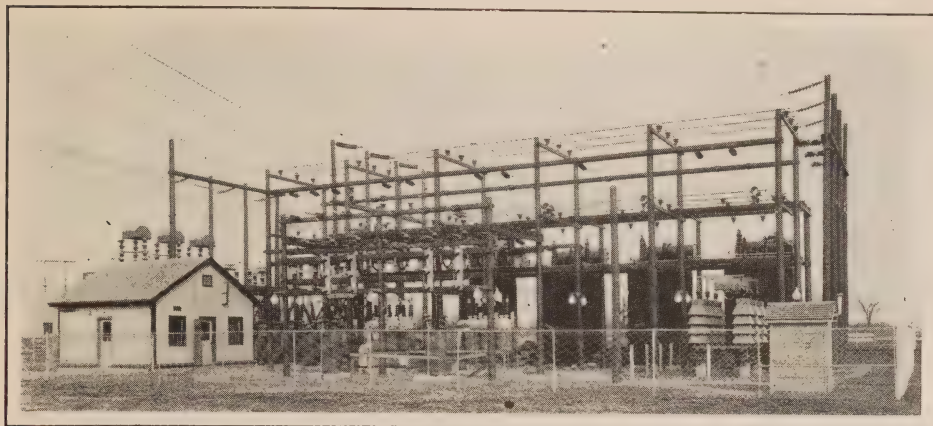
NIPISSING SYSTEM

Generating Stations

Elliott Chute generating station was placed in operation in September under manual control. The generating capacity of the system was thereby increased by 1,800-kv-a. The automatic and remote control features are not yet completed.

Transformer and Distributing Stations

Due to the change in load centre at North Bay, and in order to provide for additional capacity, North Bay transformer station No. 2 was installed, consisting of two 750-kv-a. three-phase transformers and other necessary equipment. One of these transformers was removed from North Bay transformer station No. 1, leaving only the original bank of three 450-kv-a. transformers at the latter station. The other unit was transferred from Hanover distributing station on the Georgian Bay system. Suitable reactances were installed so that the stations can be operated in parallel.



EASTERN ONTARIO HIGH-VOLTAGE LINES

Smiths Falls transformer station. Viewed from south, November, 1928

EASTERN ONTARIO HIGH-VOLTAGE LINES

Smiths Falls transformer station, which was installed in 1928, was placed in service on the 110,000-volt transmission lines of eastern Ontario in November, 1928. A transformer station was erected at Ottawa to supply power to the city of Ottawa from the 110,000-volt lines. The ultimate capacity of this station will be three or four banks of 3,000-kv-a. single-phase units. The present installation consists of one bank only and a spare unit. The station was placed in operation in October.

PATRICIA DISTRICT

A generating station is being built at Ear falls on the English river in the vicinity of the Red Lake mining district to supply power to Howie Gold Mines Limited.

Power will be generated at 6,600-volts and stepped up through banks of single-phase transformers to a transmission voltage of 44,000 volts. For the present installation a 5,000-kv-a. generator, four 750-kv-a. transformers and the switching equipment were purchased and delivered to the site. The station should be in operation about January, 1930.

SECTION VI

TRANSMISSION, DISTRIBUTION AND RURAL SYSTEMS

TRANSMISSION SYSTEMS

During the past year, work resulting from increased loads, new power customers and improvements to the systems under the control of the Commission, has kept the Transmission section very actively engaged in the design and construction of lines throughout the Province.

On the second, 25-cycle, 220,000-volt circuit for bringing power from the Gatineau River developments to the Niagara system at Toronto, progress has been consistent with the programme laid down. A 60-cycle network has been completed between the Ottawa River, Smiths Falls, Kingston and Brockville.

In the Niagara system, construction of 110,000-volt lines has been extensively carried on, in addition to the usual activity in the lower voltage lines.

It will be noted, in the following paragraphs, that a new system has been acquired by the Commission during the past year and has been incorporated in the new Eastern system as the Madawaska district.

A map showing the various transmission lines of the Commission is to be found at the end of this report and tabulated details are presented in appendix II.

NIAGARA SYSTEM

220,000-volt Line

An additional 112.02 miles of single-circuit, steel-tower line, comprising part of the second 220,000-volt circuit has been built between Hastings inter-switching station and Woodbine Avenue, Toronto. This portion of the second line is now complete and is in service to augment the first circuit which was completed in 1928.

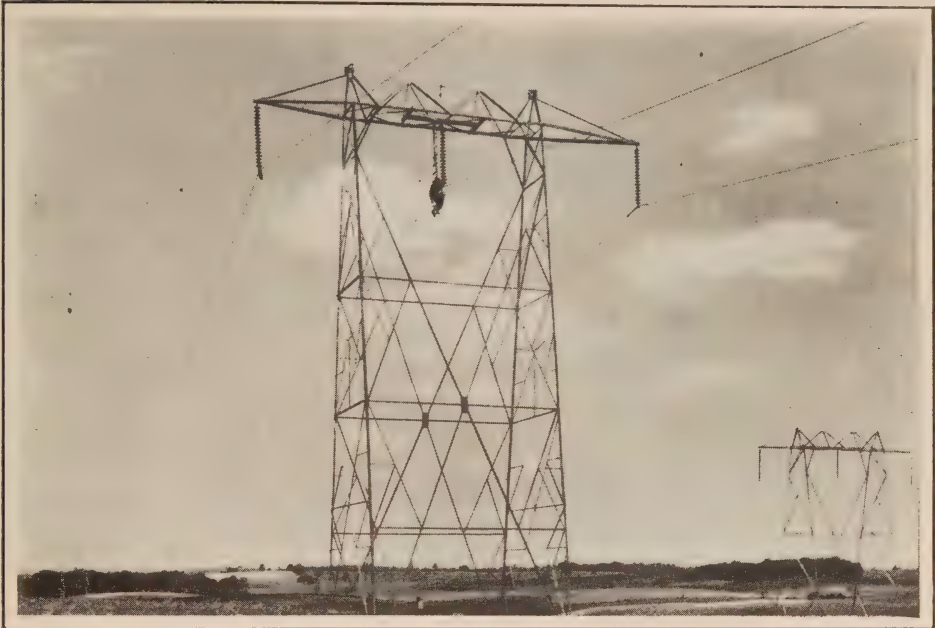
110,000-volt Lines

During the past year the construction of 110,000-volt lines has been actively carried on. The most important line erected was a steel-tower line, 103.61 miles long, between Allenburg junction and St. Thomas transformer station. This line has two circuits of 605,000 circular mil, steel-reinforced, aluminum conductor.

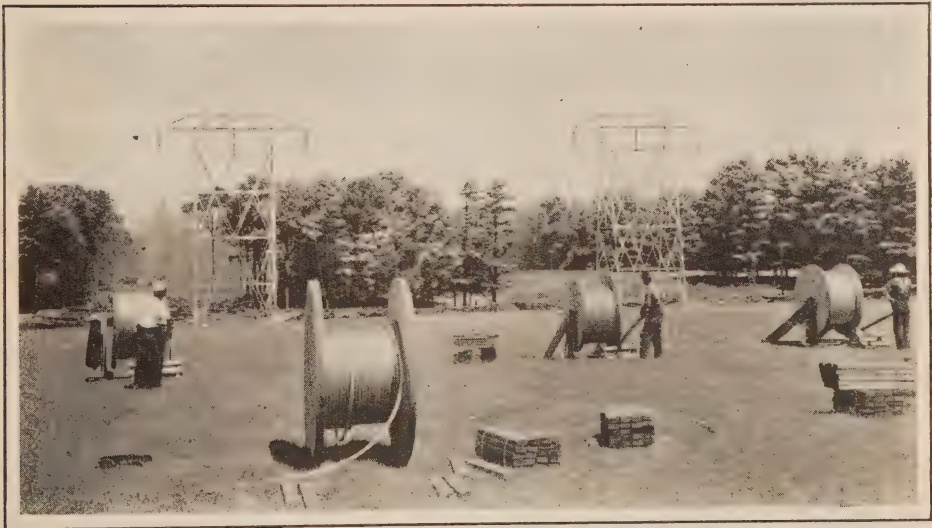
Other double-circuit, 110,000-volt, steel-tower lines were built between Queenston forebay structure and Cyanamid transformer station—3.3 miles—and between Michigan junction and Crowland junction—3.50 miles.

Single-circuit, steel-tower lines were built between Crowland junction and International Nickel transformer station—5.93 miles—and between Wabash junction and Michigan junction—4.03 miles.

Single-circuit, twin-pole lines were built between Crowland junction and McCabe Avenue junction—0.38 miles—from the end of the steel-tower line to



GATINEAU POWER SUPPLY—NIAGARA SYSTEM
View showing two 220,000-volt circuits, east from Pontypool



GATINEAU POWER SUPPLY—NIAGARA SYSTEM
Stringing cable on the second 220,000-volt circuit, showing the method of braking the reels while the cable is being paid out

the International Nickel Company—0.59 miles—and from Hamilton junction to Hamilton transformer station—1.25 miles.

Other Lines

Between pole 543 at Fletcher and a new distributing station at Merlin, 4.7 miles of 26,400-volt line has been completed. Merlin was formerly fed at 4,000 volts.

Between Essex transformer station and Malden junction—7.03 miles—and between Gosfield junction and Leamington distributing station—8.61 miles—single-circuit, 26,400-volt lines have been constructed to augment lines in the Essex County loop.

From Wiltshire transformer station to Weston distributing station, 4.61 miles of 13,200-volt line having two circuits of 4/0 steel-reinforced aluminum conductor, were completed and a tap from Albion Park junction, 1.15 miles long, was built to Albion Park distributing station.

From Hamilton transformer station to Vinemount distributing station, 9.2 miles of single-circuit, 13,200-volt line were constructed. This is the first low-voltage line to be built from the above station. Similarly, the first low-voltage line from the new Leaside transformer station was built to supply Scarborough Township distributing station, a distance of 5.47 miles.

GEORGIAN BAY SYSTEM

Eugenia District

Between Kilsyth distributing station and Tara distributing station, 6.80 miles of 22,000-volt circuit has been added to the existing 4,000-volt wood-pole line.

Muskoka District

Between Kilworthy junction and Waddells Falls generating station a single-circuit, 38,000-volt line, 8.36 miles long, has been completed to be used as a tie line between the Muskoka and Waddells districts.

Severn District

Between Waubashene distributing station and Midland distributing station, 9 miles of single circuit, 4/0 steel-reinforced, aluminum conductor have been completed in order to take care of increased elevator loads at Midland.

Waddells District

Between Greenbank junction and Port Perry junction—1.75 miles; Port Perry junction and Uxbridge distributing station—5.75 miles, and between Port Perry junction and Port Perry distributing station, the 4,000-volt lines formerly connecting these stations have been reconstructed and reinsulated for 22,000 volts.

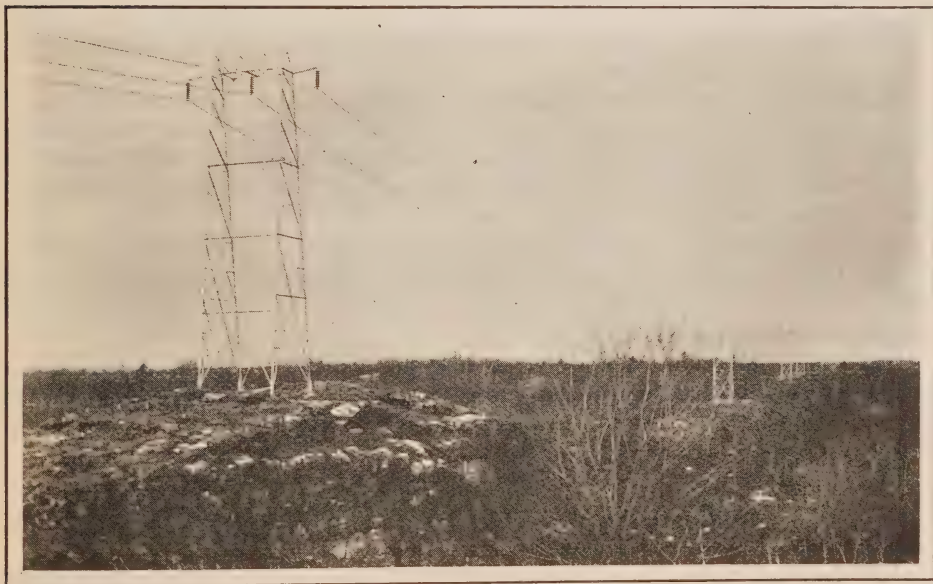
NIPISSING SYSTEM

A 22,000-volt circuit of number 2 steel-reinforced aluminum conductor has been added to the existing pole line between Bingham Chute generating station and North Bay distributing station and a single-circuit, 22,000-volt line has been built from Elliott Chute generating station to tie in with the circuits to North Bay. In addition, a lead-covered cable has been erected on wood poles between Elliott Chute and Bingham Chute for the remote control of Elliott Chute generating station.



EASTERN ONTARIO HIGH-VOLTAGE TRANSMISSION LINES

Ottawa-Smiths Falls line, showing the type of tower used for a short section at the Ottawa end
(See also Frontispiece)



EASTERN ONTARIO HIGH-VOLTAGE TRANSMISSION LINES

Smiths Falls to Kingston 110,000-volt line. A rocky section looking north near Battersea.
Note the rock footings

MADAWASKA SYSTEM

The transmission lines in this district form part of the distribution system acquired by the Commission during the past year and include 32.25 miles of 33,000-volt, wood-pole line between Calabogie generating station and Arnprior and 7 miles of 11,000-volt line between Galetta generating station and Arnprior distributing station.

EASTERN ONTARIO HIGH-VOLTAGE TRANSMISSION LINES

High-tension lines in eastern Ontario designed to supply the St. Lawrence, the Rideau, the Ottawa, and the Central Ontario and Trent systems from power plants on the Gatineau river, and reported as under construction in last year's report, have now been completed and include:—2.05 miles of double-circuit, steel-tower line between the Ottawa River crossing at Remic Rapids and Ottawa junction; 38.93 miles of single-circuit, wood-pole line between Ottawa junction and Smiths Falls transformer station; 49.62 miles of single-circuit, steel-tower lines between Smiths Falls and Kingston transformer station, and 24.33 miles of single-circuit, wood-pole line between Smiths Falls and Brockville.

TELEPHONE LINES—ALL SYSTEMS

Between the Ottawa river and Toronto 200 miles of telephone circuit have been completed and placed in service to facilitate the operation of the 220,000-volt transmission lines. Excellent communication is now available direct from the Commission's head office in Toronto to Pagan Falls, 238 miles.

Between Dundas and Kitchener, 48 miles of copper telephone circuit was added to the existing telephone line which parallels the 110,000-volt transmission line. This addition was made necessary in order to relieve traffic on the former circuits between these two points.

In the Niagara district rearrangements have been made, and two new copper circuits strung between the Ontario Power and Toronto Power transformer stations. In addition to providing urgently required relief, the new circuits are so connected to the existing circuits in the system that they provide an additional circuit to Toronto.

Between Davenport and Wiltshire transformer stations in Toronto, installation has been completed of an underground, pilot-wire cable, containing 16 telephone circuits to be used for communication between these two points and to tie in with the Niagara lines.

In all telephone work completed during the last year, special attention has been paid to making the various circuits "noise free" and considerable work in this connection has been done in the system used in the operation of the lower voltage transmission lines.

DISTRIBUTION AND RURAL SYSTEMS

The work carried on by the Distribution section of the Electrical Engineering department covers the engineering for the construction of rural lines, distribution feeder lines, metering equipments, distribution systems for municipalities, etc. A tabular report of the work done during the past year may be found in Appendix III of this report.

SECTION VII

THE LABORATORIES

This department has experienced during the past year an increased demand for its services from other departments of the Commission. This has necessitated additions to the equipment and staff.

Special mention may be made of the following features of the year's operations which are dealt with in greater detail below: the increased pressure upon the Approvals laboratory, which has been partially relieved by an addition of fifty per cent. to the testing space and the installation of additional equipment; the expansion of the field inspection in both the electrical and physical sections; the valuable results of the programme of concrete research and inspection of concrete structures, and the close study which is being made to detect abnormal operating phenomena on the 220,000-volt lines.

There has been an increasing interest taken by the municipalities in the department, but there is still room for improvement in this direction. It is hoped that the municipalities will cultivate a closer contact, as the department can be of great service to them.

The department has continued its co-operation with other engineering and scientific organizations. Proof is continually being afforded of the mutual benefits resulting from contacts made in this cooperative work with organizations such as The National Research Council of Canada, The Ontario Research Foundation, The Canadian Engineering Standards Association, The Engineering Institute of Canada, The American Institute of Electrical Engineers, The American Society for Testing Materials, The National Fire Protection Association, The International Electrotechnical Commission, and The International Association of Electrical Inspectors.

High-Tension and General Electrical Laboratory

The general nature of the work carried out by this section has not altered appreciably from that of previous years, with the exception that considerably more shop inspection has been done by various members of the staff.

Shop Inspection

Routine shop inspection of transformers, rotating machinery and other apparatus has been conducted on a much larger scale than heretofore. Inspection of insulators throughout their process of manufacture has been given a larger place in the activities of this department.

Lightning Investigations

Records of lightning surges have been obtained during the year though the general investigation has been carried on in a very modest way. Additional information has been obtained on ground resistances and on the relative accuracy of various methods of testing them. A systematic improvement in the tower ground resistance in the eastern section of the 220,000-volt line to Paugan Falls was carried out during the summer to reduce the chances of interruptions to service from lightning.

The Commission is considering the matter of extending this work to a considerable degree by the application of the cathode ray oscillograph and lightning generator.

Special Tests of Equipment

Investigations have been made of the application and effectiveness of various types of apparatus, equipment, and materials, their uses and proposed uses. Much of this is routine work but frequently the requirements of standardized specifications are called in question and special studies must be made.

Radio Interference

Further attention has also been given to the problem of radio interference, and in a number of cases satisfactory solutions have been proposed.

Meter and Standard Laboratories

Standards

This section of the Laboratories supervises the maintenance of the standards by which the electrical meters used by the Commission for its private use are checked. The equipment maintained is complete and satisfactory for this purpose.

Special Equipment

Equipment having special electrical characteristics is purchased or built from time to time as the need arises: the meter shop is frequently called upon for work of this kind.

Meters

A large number of watt-hour meters has been repaired and others rebuilt ready for inspection by the Dominion Department of Gas and Electricity Inspection. Repairs and adjustments to various types of meters, such as voltmeters, ammeters, wattmeters, meggers, time switches, etc., have been made on a somewhat larger scale than in previous years.

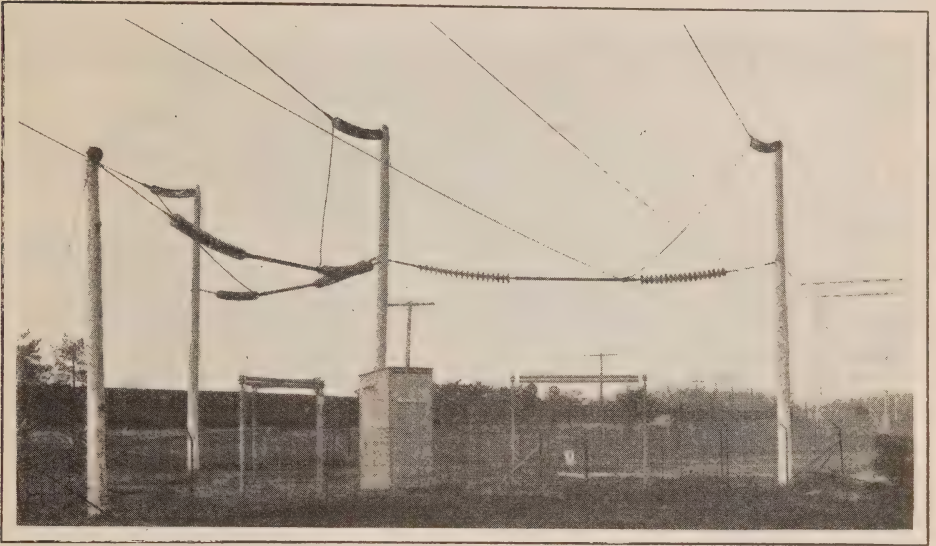
Commercial Tests

This section has made a considerable number of tests for other organizations and for individuals. Among the more important of these tests are: calibration of meters and load and efficiency measurements in industrial plants. The department has recently undertaken the testing of linemen's gloves for a large organization in eastern Canada. These tests are made periodically in accordance with a carefully arranged programme adopted by the organization to safeguard the workmen.

Illumination Laboratory

Lamp Testing

In keeping with the increased volume of lamp sales during the past year, the Illumination section of the Laboratories has tested a proportionally larger number of lamps than during any previous year.



KLYDONOGRAPH INSTALLATION AT LEASIDE TRANSFORMER STATION

This instrument records disturbances of very short duration which may arise on the lines and be transmitted to the station equipment

The sole purpose of this testing is to maintain the quality of "Hydro" lamps. The method of systematically testing samples from the run of the factory for the Commission's orders enables the relative life performance of the various sizes and types of lamps to be observed. By making tests to determine the effects of variations in construction, it was possible to cause an appreciable improvement in the life performance of some of the smaller sizes of lamps.

To settle a point raised by a user of "Hydro" power and lamps, a quantity of Lunar (blue bulb) lamps were tested in comparison with similar lamps constructed with clear bulbs. The results indicated that the blue bulb does not shorten the life.

The life of series lamps is generally so much greater than their rated value that very few of these tests are run to completion, it being necessary to discontinue the tests after the lamps have burned well beyond the stated requirements.

Commercial Tests of Lighting Equipment

Tests of this kind are confined principally to industrial and commercial lighting equipment. Most of this has been standardized for several years, and the few tests made during the year were for the purpose of obtaining comparative information relative to American and European lighting glassware. There are large differences in efficiency among different brands of glassware that appear equal in all other respects. This service has been utilized by several "Hydro" municipalities. One of the largest has made repeated use of the facilities of the Laboratory to obtain data relative to competitive brands of street lighting glassware before contracting for supplies.

Lighting Service

This service, which is rendered upon request, includes inspection and survey of unsatisfactory lighting conditions with plans for their rehabilitation, lighting plans for new buildings and advice regarding unusual lighting requirements.

A few of the managers of local municipalities have availed themselves of this service and repeated requests for service have come from this small group. In most cases the service has been requested on behalf of power users in the municipalities.

On several occasions it was necessary to make laboratory tests of equipment in connection with some of the problems. In this respect the laboratories are exceptionally well equipped to serve the needs of customers of the municipalities.

Automobile Headlight Testing

Several years of study and observation of the illumination of highways by means of automobile headlamps have resulted in a reduction in the number of types of optical equipment to a very few that fulfil the requirements of the specifications based upon present-day knowledge of the subject. Improvements in headlamps (except for the form of the housing) are infrequent, consequently very few tests are required. However, many times during the year experimental models of equipment are submitted by inventors for examination with a view to official tests if the designs indicate the possibility of satisfactory results.

Engineering Materials Laboratory

The amount of work handled by this section has exceeded that of any previous year, and while as much research work as time permitted has been carried out, of necessity the activities of the section have been largely of a routine nature.

Inspection

The inspection division of the laboratory has had an especially busy year. In addition to the work entailed in the inspection of materials for a year of increased construction, it has been found advisable to enlarge the list of materials usually examined so that at present a very large proportion of those purchased are inspected either completely or in part, as may be found advisable, depending upon the importance of the particular materials and their sources of supply. While a very large proportion of these standard materials are found to be acceptable, rejections are sometimes necessary because of defects, but more frequently on account of their not being of the grade ordered. This work, in addition to eliminating objectionable material, enables our engineers to compare the products from the various sources of supply, and is of value in making further purchases.

Our inspectors have been required to fill another very important part in addition to inspection. Very frequently, and to a greater extent during the past year, it has been found difficult to obtain materials in sufficient time to meet our construction schedules. From their close touch with the work and their intimate knowledge of the plants and other organizations, the inspectors are in an advantageous position to expedite material, and in some cases this feature becomes more important than the inspection itself.

General Research

No new investigations have been carried out in the past years, except those arising from routine work, to which solutions are immediately required. Several

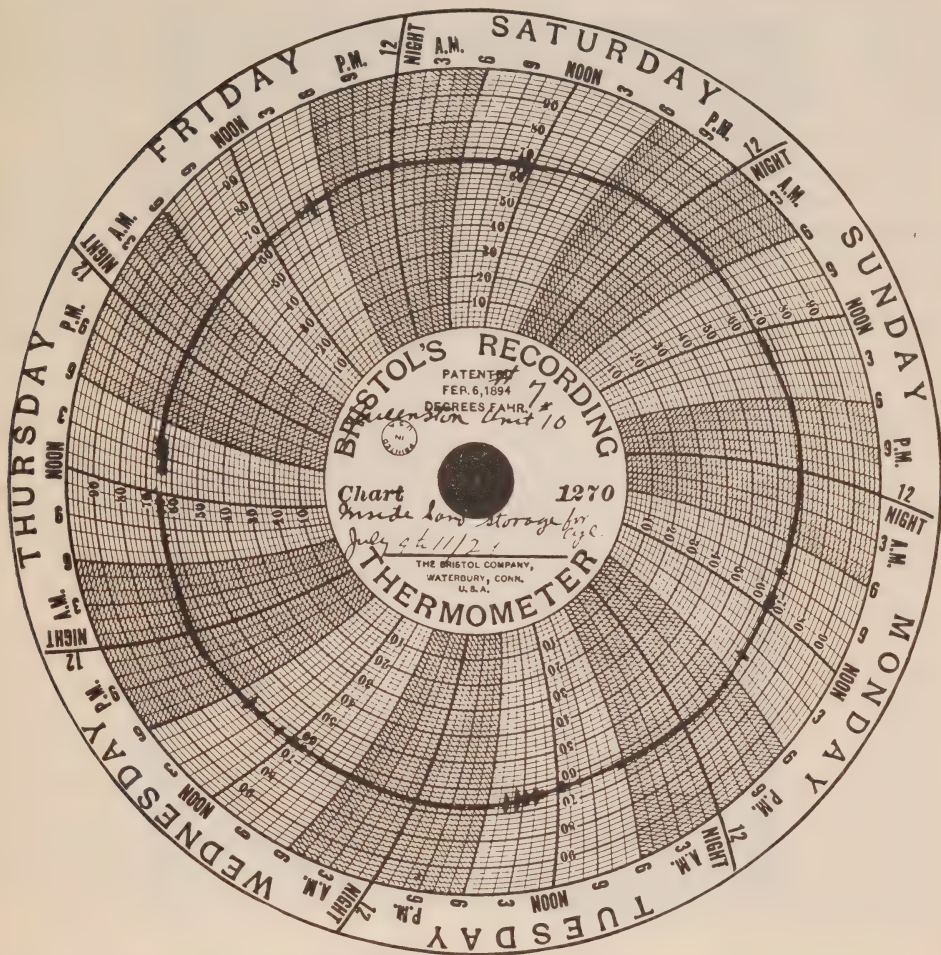


Chart showing degree of temperature control obtained in the concrete specimen storage room in the field laboratory at Queenston as a result of apparatus developed by the Engineering Materials Laboratory.

problems of the latter type have been studied and solved, and in some instances the information obtained in this way has aided the manufacturers in improving their product.

Concrete Research

The principal research activity of the Engineering Materials Laboratory has been a continuation of the study of the behaviour of structures in service. The Commission's structures are being very closely watched and any unusual condition observed has been carefully studied. One case of incipient alkali attack was thus detected, and new information on the corrosive action of natural waters has been obtained.

The observations made upon the corrosive action of certain types of waters has shown the need for a determination of the exact chemical characteristics of

the various natural waters that the concrete structures of the Commission have to resist, and work along these lines was undertaken during the year. Weekly samples are being obtained from fifteen different rivers and tested, and at the same time, the closely related problem of the character of the changes brought about in both the concrete and the water when the latter seeps through concrete is being studied.

In addition to the Commission's plants, about seventy-five concrete structures belonging to others have been inspected during the year. Structures were usually inspected in groups, each group being chosen with a view to getting information along certain definite lines. For example, the structures of one district have been carefully examined for evidence of the effect of defective aggregate, those of another for the effect of very pure natural waters, while a third group, which was inspected, consisted entirely of old dams of a certain type. Much valuable information has been secured.

Waterproofing Materials

As mentioned in previous reports, a study has been in progress for two years of the effectiveness of the clear and colourless liquid waterproofing materials used commonly for the purpose of preserving and protecting stone, brick and concrete surfaces. The tests, which are now complete, show that none of the materials tested had any permanent value when applied to concrete surfaces.

Temperature Control in the Field Laboratory

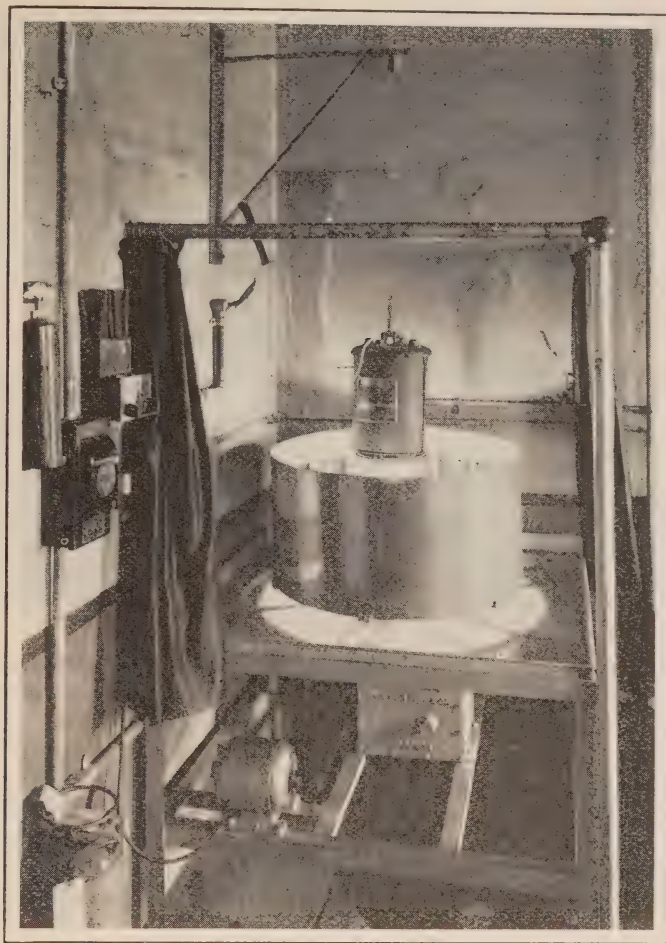
A laboratory for the field testing of concrete is installed on every major concreting operation of the Commission in order to control the quality of the concrete used. One of the difficulties encountered with these laboratories has been to maintain the curing temperature of the concrete specimens between 65° and 70° F. at all times. During the past winter a cheap but efficient system of temperature regulation was worked out and has been in successful use in the field laboratory installed at Queenston for the powerhouse extension now being built. Very close temperature regulation has been obtained with this installation, and it has proved so successful that similar equipment is being installed on the Alexander power development and in the cylinder storage room of the laboratory.

Chemical Laboratory

The Chemical Laboratory cooperates very closely with all other departments of the Laboratories and much of its work arises from investigations originating in these departments. A typical case in point is the study of natural waters referred to previously.

Insulating Oils

One of the important materials used by the Commission in the operation of its electrical equipment is insulating oil. It forms an indispensable part of every transformer and large circuit breaker. It is also one of the most complex of materials and many things about its behaviour in service are but partly understood. In recent years the Commission has taken an active interest in furthering the study of this class of oils. It is represented on several important technical committees studying them and has actively cooperated with the American Society for Testing Materials, the International Electrochemical Commission, and the Canadian Engineering Standards Association in their investigations and standardization work. An extensive series of tests on oils was completed during the past year and reported to the first two of the above organizations. Besides



CHEMICAL LABORATORY

Apparatus for making life tests on paint. Conditions equivalent to noon-day sun alternating with rain are furnished by this machine

these, the laboratory has been studying the behaviour of breaker oils in service and is commencing an investigation of the nature of the gases that form in transformers and breakers under both normal and abnormal conditions of operation.

Scale in Transformers

An interesting problem was presented by a bank of transformers in which the cooling coils became so filled with scale from the cooling water used that they could not be operated. A study was made of the type of scale formed and a method worked out for removing it by forcing a solvent through the pipe. The treatment was entirely successful and made the purchase of new coils unnecessary.

Corrosion of Pipes

A somewhat different problem was successfully solved at another station where the cooling water used was corroding the pipes badly. The cause of this trouble was determined and a remedy developed which has eliminated the trouble.

Paints

The testing of paints is a continuing operation. A certain percentage of all purchases are regularly sampled and checked, and new paints are investigated and classified. In addition, the behaviour of paints actually in service are studied and their performance compared to the laboratory tests already made. In this way the laboratory is able to assist the engineers in deciding the best means and the proper material for protecting the Commission's structures.

One of the difficulties in testing paints is the time required to obtain information as to their weathering properties. It has been found by experience that at least two years' outdoor exposure is required to weed out paints of doubtful quality, and most good paints will be on the test racks from three to five years before failure. Recently an apparatus has been developed which overcomes this difficulty in part. It consists of a slowly revolving cylindrical drum on which the test panels are mounted. In the center of the drum a special arc lamp is hung the light rays of which closely approach the sun's rays in actinic quality. During each revolution the test panels are sprayed for a short time with water. It has been found that paints tested by this machine fail in the same manner as paints in service, and instead of taking several years to bring about failure, as in ordinary exposure testing, failure occurs in from forty to fifty hours or sooner if the paint is of poor quality.

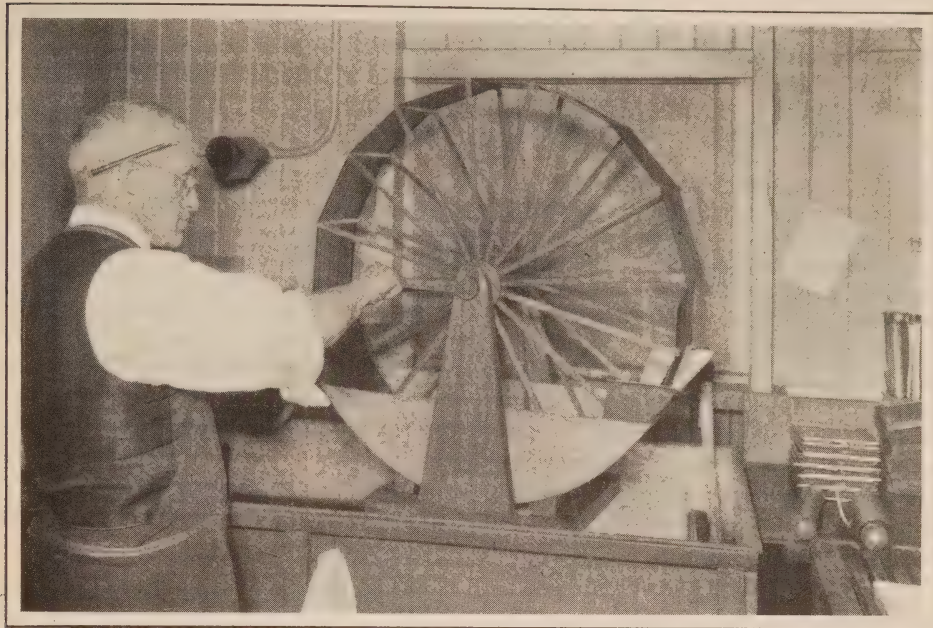
Wood Preservatives

The Commission uses annually many thousands of wooden poles. All of these are subject to decay, and in a number of localities deterioration occurs very rapidly. In spite of the fact that the Commission treats most of its poles, the annual loss from this cause is very great, and ways and means of lessening it through a better treatment of the poles are always being sought. To assist the engineers in solving this problem, a test plot has been installed north of Barrie where pole deterioration has been particularly bad, and 30 pole butts of different kinds of timber treated in various ways have been placed in the ground there. The condition of these poles will be regularly examined and reported upon.

Photographic Branch

This Department has been quite busy all through the year. Many trips have been made to record the activities of the Commission, notably the erection of the new St. Thomas and Port Colborne transmission lines, and the western section of the second Gatineau line. Progress photos have been taken monthly at Queenston on the erection of No. 10 unit, and at Leaside on the installation of the condenser station and the extension to the Leaside station. Trips have also been made to Bracebridge covering work at Hanna Chute and the new plant at Trethewey falls; to Powassan where a record was made on the new Elliott Chute plant, and the Bingham Chute and Nipissing Generation station near there. Photographs covering the installations of "Hydro" in several of the rural power districts have also been taken.

A hand movie camera has been added to the equipment of the section and has been carried on each of the above trips. It is proposed to assemble the pictures taken with it into several groups and to add to them as circumstances permit so that ultimately the Commission will have available moving pictures of all its plants and activities. At Queenston a record of the concrete plant and mixing and delivering methods is being made. Some of the erection methods and difficulties met with on tower line construction have also been covered.



PHOTOGRAPHIC LABORATORY

Apparatus designed in the Photographic Laboratory for developing the long films used in the Klydonograph

The inside activities have also been many and varied covering the developing and finishing of photos taken by the Engineering staff while in the field, copying maps, drawings, blueprints, etc., making lantern slides and enlargements. Developing and finishing the klydonograph records made out on the transmission lines has also involved much work. In connection with the research work of the laboratories, the photographic branch was asked to handle the films from the continuous recording klydonograph which were $8\frac{1}{2}$ feet long. This was successfully accomplished by building a circular rack turned by a hand crank in a special semi-circular tray which contained the developer. A picture of this new equipment is attached.

Approvals Laboratory

Applications for regular approval report and listing to the number of 475 were received during the year, an increase of 45 per cent over the preceding year. Of these applications 26.5 per cent referred to motor-operated appliances, 23.5 per cent to heating appliances, 15.5 per cent to radio and sound-reproducing appliances, 15 per cent to lighting devices, including portable lamps, 10 per cent to wiring devices and 9.5 per cent to sockets, switches, etc. In addition 62 special applications for temporary approval, or limited label service, were received, and 184 applications for listing of equipment approved by Underwriters' Laboratories, an increase of 22 per cent, were also recorded.

Final approval reports to the number of 258, an increase of 57 per cent, were issued in addition to a much larger number of preliminary letter reports. 351 white card summaries of these reports, together with 167 green card reprints of Underwriters' Laboratories listings were printed.

At the close of the year, 273 reports remained incomplete, but all applications with the exception of 24 had already received attention and the submittor had been advised of the results of a preliminary test and examination.

To take care of the large increase in the number of applications received, two engineers have been added to the staff. The clerical work in connection with the re-examination and label service has also increased to such an extent that two more clerks have been taken on together with an additional typist.

The enforcement of regulations regarding the sale of electrical equipment has been assigned to one engineer who is directing the work of prosecution of offenders both in the Toronto district and through the local inspectors in the other inspection districts throughout the Province. About 25 charges have been laid during the year. Convictions were registered in almost every case as no charge was laid until ample opportunity had been given the offender to correct his error in a reasonable time. These cases covered sales of unapproved radio and sound-reproducing equipment, portable lamps, sockets, electric tools, incubators and brooders, flexible tubing, armoured cable and heating appliances. Charges were laid in Toronto, Hamilton, Ottawa, and Kitchener districts with very beneficial results.

Two supplements to the list of approved electrical equipment have been issued during the year, and its distribution throughout Canada and the United States has been considerably extended.

Arrangements were completed with the city electrician of Winnipeg to act as the Commission's representative for Approvals inspection among local manufacturers in that city. Negotiations are also underway for the purpose of appointing an agent for label service in the city of Montréal. Two inspectors from the laboratory are now employed full time on label and re-examination work and a third inspector is giving half of his time to the local work.

Mileage travelled by these inspectors during the year amounted to 16,153, part of this by railway but a large proportion by automobile.

Label users now total more than 225. Sales of labels have increased 75 per cent in value, the larger increases being in portable lamps, signs and service boxes.

ELECTRICAL INSPECTION DIVISION

To comment upon the functions and scope of the Electrical Inspection department would entail the repetition of statements made in recent annual reports. In the Twentieth Annual Report of the Commission (1927), a detailed and comprehensive description of the tests and operations of the department was given.

The Electrical Inspection division, like the Testing division, differs from other departments of the Commission, in that it is not concerned with the sale of power or the rates charged for service. The main function of the department is to enforce the Rules and Regulations governing electrical installation work, which cover not only the mechanical features but the insulation values as well. Thus an inspector must not pass upon nor permit the use of any material, equipment or current-carrying device for connection to any circuit or source of supply coming under the jurisdiction of the Electrical Inspection division that has not been tested and approved by the Testing Laboratories of the Commission. The energies of this division of the department are entirely confined to that field.

The Year's Operations

The principal feature of the year's operation worthy of comment is the volume of business handled, which is largely governed by building activities, type of construction, the extension of rural power lines, and to a variable extent, by the sale of electrical appliances and apparatus, such as ranges, heaters, fuel burners, refrigerators, etc.

A large amount of time is devoted each year to the inspection of electrical installations in older buildings. Defective and obsolete wiring in 5,617 buildings and premises was condemned by the department as constituting a fire and life hazard. These buildings were re-wired, in whole or in part, at a cost estimated at \$410,000.

A brief resume of the year's work shows that the number of paid applications for inspection received was 96,701—an increase of 1,502, or 1.5 per cent over the preceding year. A total of 185,582 inspections were made, being an increase of 5,773, or 3.1 per cent.

Nine fires were reported to have been caused by defective wiring or equipment.

Thirty persons and companies were prosecuted during the past twelve months for various infractions of the Rules and Regulations. Twenty-six convictions were secured and fines ranging from ten to fifty dollars were imposed.

Three persons were electrocuted through coming in contact with live equipment. It is noted, with regret, that two of these deaths were the result of carelessness; one, by using a portable electric heater in a bathroom; the other, through a mistake in making a connection to a 550-volt machine.

The condensed summary, below, is illustrative of the amount of work taken care of during the past ten years:

Year	Permits issued	Inspections made
1920.....	87,399	160,990
1921.....	84,352	160,873
1922.....	90,932	182,522
1923.....	90,000	180,000
1924.....	90,497	176,108
1925.....	98,419	173,418
1926.....	92,725	174,979
1927.....	89,425	169,098
1928.....	95,199	183,724
1929.....	96,701	185,582
Totals.....	916,649	1,747,294

Canadian Electrical Code

Mention has been made in previous reports of the part played by the Commission in the preparation of the Canadian Electrical Code, the first edition of which was published in 1927 and adopted by the Commission in 1928. The operation of this Code in Ontario has been eminently satisfactory. A second edition has been prepared and is now in the press. This embodies changes made necessary by advances in the art and by the experience of inspectors throughout the Dominion since the first edition was published. It is expected that the new edition will be adopted in 1930.

SECTION VIII

ELECTRIC RAILWAYS

ESSEX DISTRICT RAILWAYS

Way and Structures

The single-track extension of the Parent Avenue route on Tecumseh road, Walkerville, mentioned in last year's annual report, was constructed and was placed in operation on February 14, 1929. This extension, from the westerly limits of Walkerville to Walker road is 2,300 feet long and is placed off centre, in the double-track unpaved reservation provided in the centre of the street. The construction is of the open type except at street intersections, at which points the track is paved with granite blocks on concrete paving base. Tubular steel poles for ornamental street lighting and railway overhead construction were erected on this extension and arrangements made whereby the cost of the pole lines was borne equally by the municipality and the railway.

In addition to the normal maintenance work required on the system, reconstruction work of a major character was carried out on London street and Sandwich street west in Windsor and on Sandwich street in the town of Sandwich. The bridge over Turkey creek was also reconstructed during the year.

On London street in Windsor the reconstruction work was performed in conjunction with the city's street widening scheme. The reconstruction programme involves the complete reconstruction of the paved double track from Ouellette avenue to Salter avenue, a distance of 2,600 feet, the partial reconstruction from Salter avenue to Elm avenue, a distance of 900 feet, and the complete reconstruction between the M.C.R. bridge and the west city limits, a distance of 2,100 feet. Also involved was the moving of the existing steel-pole lines from Bruce avenue to the west city limits, this latter work being done at the expense of the municipality. It was, however, found impossible to complete the reconstruction programme during 1929 owing to the fact that the city's plans for widening London street east of Janette street were not completed. That portion of the work therefore, between Janette street and Ouellette avenue for a distance of 1,900 feet, still remains to be completed, and it is expected that this work will be done during the ensuing year. Where complete reconstruction

was necessary, standard paved double track was installed, consisting of 100-pound A.R.A.-A. rail on international twin steel ties, with concrete ballast and pavement. Partial reconstruction between Salter avenue and Elm avenue consisted of the replacement of the 85-pound C.P.R. rail and asphalt block pavement, with 100-pound A.R.A.-A. rail on steel tie plates, and granite block pavement, the existing wood ties and concrete base being utilized. Joints were thermit welded throughout.

On Sandwich street west in Windsor, the bridge over the Canadian Pacific Railway was reconstructed by that company, necessitating reconstruction of the street railway paved single track in a slightly different location for a distance of 500 feet. As the single track which was replaced was in a wornout condition, arrangements were made with the Canadian Pacific Railway, providing for the work being done by the Commission's forces, the Commission supplying the necessary steel rails and steel ties in place at its own expense, all other costs in connection with the work being borne by the railway company.

The pile trestle over Turkey creek having reached such a condition that further repairs were not considered economical, complete reconstruction was made. The new trestle consists of eight, four-pile bents with timber deck.

On Sandwich street in the town of Sandwich, double-track construction is proceeding in the centre of the street between Rosedale avenue and Detroit streets, for a distance of approximately one-quarter mile. The double track between these two streets was formerly situated on private right-of-way at the south side of the street and as the track at each end swung across the pavement to regain the centre of the street a somewhat hazardous condition existed. Arrangements have been made with the municipality providing for the new track construction to be in the centre of the street, the municipality purchasing the private right-of-way for street widening purposes. The municipality has also agreed to bear the cost of pavement on the new track allowance. Tubular steel poles for the joint use of the municipality and the railway for lighting and railway overhead are also being erected. It is expected that the work will be completed and placed in operation before the end of the calendar year 1929.

An addition to the car yard property was made by the purchase of the Fleming property fronting on Sandwich street in Windsor. The car house property now extends from London street on the south to Sandwich street on the north, with a frontage of 237 feet on the former street, and 120 feet on the latter, the total length between the two streets being 1,062 feet.

Equipment

The railway equipment was well maintained, no new equipment being added.

Operation

The gross revenue for the year 1929 amounted to \$1,241,042 as compared with \$1,158,710 for 1928, an increase of \$82,331.

The net operating revenue for the year 1929 was \$305,962 as compared with a net in 1928 of \$274,377, an increase of \$31,585. The interest and taxes for

the year 1929 amounted to \$266,881 as compared with \$260,272 for the year 1928, an increase in fixed charges of \$6,609.

The improvement in passenger business noted towards the close of 1928 continued for the first six months of 1929, each month showing an increase in revenue passengers carried as compared with the corresponding period for the previous year. The increase in passenger earnings was increased in a greater proportion due to the higher rate of fare for the first six months of 1929 as compared with 1928. For the last six months the rate of fare is the same for both years, but during this period the number of revenue passengers carried in 1929 showed a considerable decrease from the 1928 figures with a corresponding decrease in earnings. From November 1 to April 30, revenue passengers increased 355,678 over 1928 and from May 1 to October 31 decreased 586,789, a net decrease for the year of 231,111.

The industrial depression in the Border Cities resulting from the partial or total closing of automotive factories and allied industries in the early summer of 1929 is responsible for the falling off in passenger earnings. The Chamber of Commerce report of automobile workers employed in September was 7,934 as compared with 14,280 in April, and it was noted that many of these were working part time only.

The College Avenue line was placed in operation in December, 1927, and carried 451,177 revenue passengers, replacing bus service to a considerable extent. Bus revenue passengers were 348,907 less than in 1928. The Parent Avenue extension was put in operation in February and this line carried 560,171 more fare passengers than in 1928. All other city car lines except Seminole (29,400 increase) showed decreases. The Howard Avenue bus line carried 262,093 passengers more than in 1928.

There was a reduction in freight tonnage from 19,183 tons in 1928 to 12,540 tons in 1929, due to the curtailment of shipments to the export docks. This was offset by a substantial increase in car rentals.

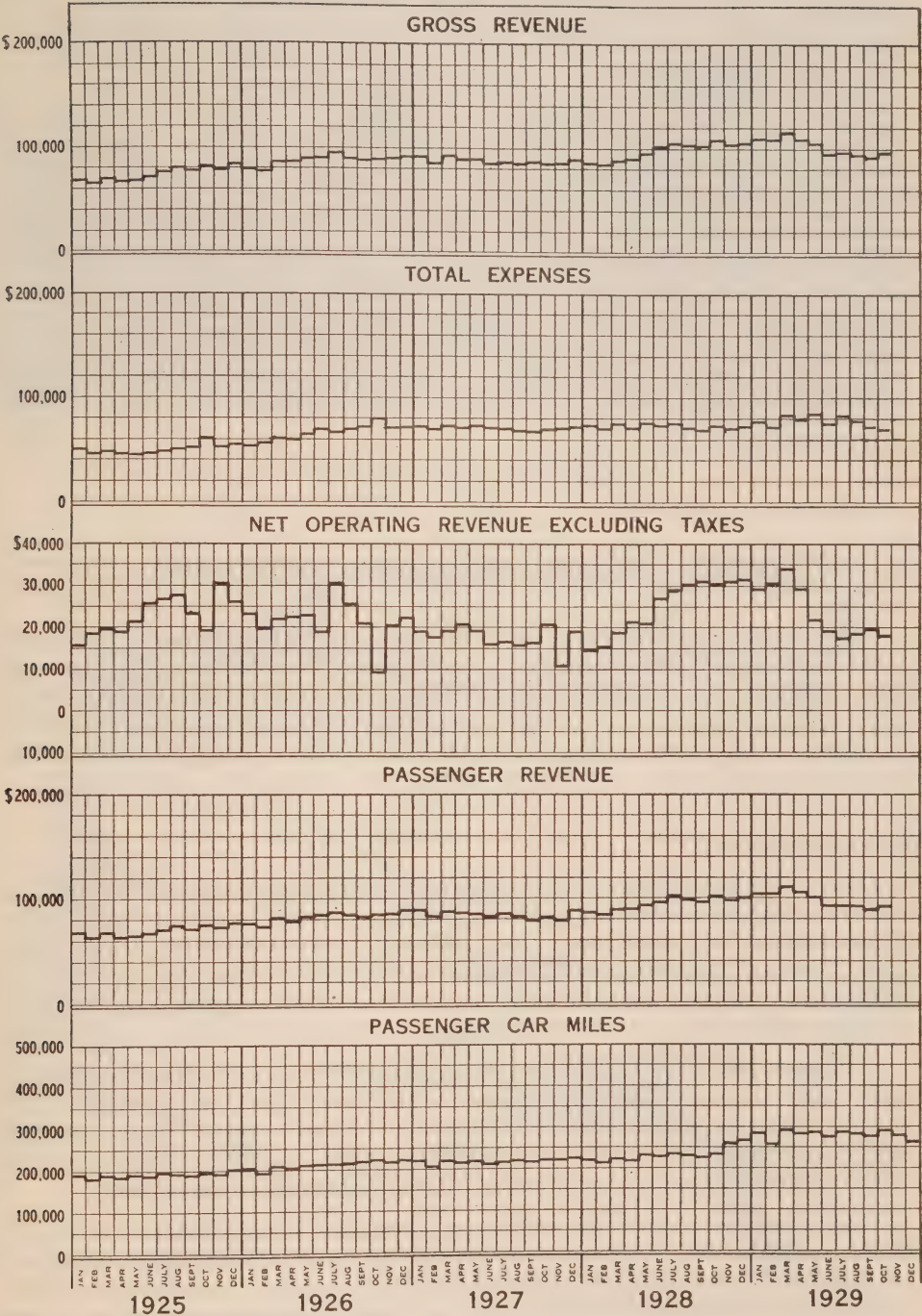
The net result of the year's operations shows a surplus of \$44,471 after paying interest and taxes but without taking care of depreciation, as compared with \$14,095 in 1928. Passenger revenue increased \$76,262 and freight revenue increased \$3,249 over 1928. Gross revenue increased \$82,331.

Arrangements are being made to operate a bus service over the Ambassador bridge early in November.

The financial statements respecting the railway are given in Section IX of this report. The accompanying chart indicates the growth of the railway for the past five years.

The mileage operated by the various types of cars and buses during the year is as follows: single-truck, hand-brakes, two-man cars, 5,009 car-miles; double-truck, air-brakes, two-man cars 244,113 car-miles; interurban cars, 516,849 car-miles; single-truck, safety cars, 735,945 car-miles; double-truck, safety cars, 1,347,437 car-miles; express cars, 18,182 car-miles; buses, 507,887 bus-miles; service cars, 22,269 car-miles; total, 3,397,691 car- and bus-miles.

ESSEX DISTRICT RAILWAYS—OPERATING STATISTICS



ESSEX DISTRICT RAILWAYS

Operating Statistics, 1929

Route-miles:

City trolley.....	24.29
City bus.....	18.50
Amherstburg interurban.....	13.54
Tecumseh interurban.....	6.10

Total route-miles.....	62.43
------------------------	-------

Passenger and freight car-miles operated.....	3,375,422
Passenger and freight car-hours operated.....	380,394
Passengers carried.....	19,703,333
Percentage of transfer passengers to revenue passengers.....	17.24
Passenger cars operated.....	65
Passenger buses operated.....	15
Passengers carried per route-mile.....	315,607
Passengers carried per car-mile.....	5,869
Passengers carried per car-hour.....	52.57
Average mileage per car operated.....	38,504
Average mileage per bus operated.....	33,859
Average passengers per car operated.....	282,263
Average passengers per bus operated.....	90,415
Freight tonnage carried.....	12,540

WINDSOR, ESSEX & LAKE SHORE RAPID RAILWAY

On the 8th of September, 1929, the operation of the Windsor, Essex and Lake Shore Rapid Railway was taken over by the Commission under agreement with the Windsor, Essex and Lake Shore Electric Railway Association, the latter body, representing a number of municipalities traversed by the railway, having purchased the line from the original owners, the Windsor, Essex and Lake Shore Rapid Railway Company, at a cost of \$296,000.

Way and Structures

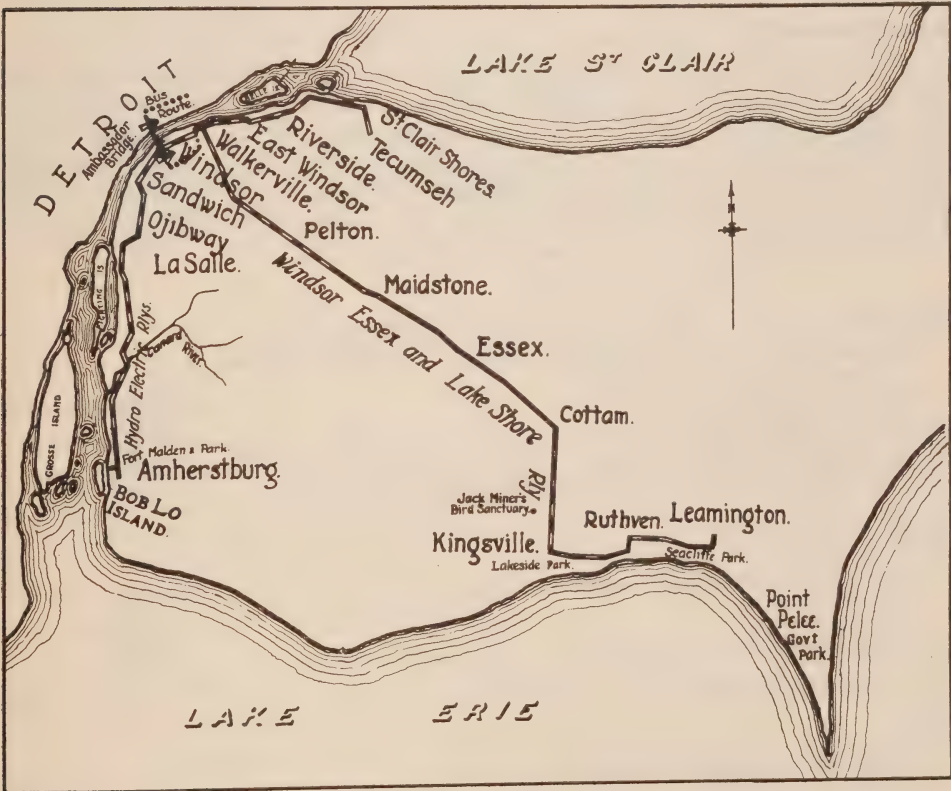
This railway consists of 36.12 miles of standard gauge single track extending from the intersection of Pitt street and Ouellette avenue in downtown Windsor to Leamington, with numerous industrial sidings along the route. In Windsor, Essex, Cottam, Kingsville and Leamington the track is situated in the centre of the street, while on the balance of the line it is constructed on a narrow strip of private right-of-way of varying widths, adjacent to the highway.

The main line track in Windsor, Essex, Kingsville and Leamington is paved, chiefly with vitrified brick, the balance is of the open type of construction. The rail is mainly 80-pound A.S.C.E. section, in 33-foot lengths. Approximately 7,000 pairs of two-hole angle bars have been used. Ties are of hardwood in paved construction and of cedar and jackpine in the open construction.

The overhead system of cross-span construction in Windsor is chiefly carried on steel poles. On the balance of the line, 30 to 35-foot cedar poles have been used, with iron brackets supporting catenary construction except in Essex, Cottam, Kingsville and Leamington, where cross-span construction is in use. The 10-point catenary construction consists of 7/16 steel-stranded messenger wire supporting a 3/0 grooved copper trolley wire.



WINDSOR, ESSEX & LAKE SHORE RAPID RAILWAY
Bathing Beach and Dressing Rooms at Point Pelee Park



WINDSOR, ESSEX & LAKE SHORE RAPID RAILWAY

A combined car house and freight shed of solid brick construction is situated on Arthur street in Windsor. In Kingsville there is a small car house of solid brick construction, also a garage of corrugated iron construction. The head office and the freight shed is also located at Kingsville. In addition there are a number of small stations, shelters and miscellaneous buildings including a combined station and freight shed at Essex.

Equipment

The car equipment consists of seven motor passenger cars, four trail cars, four Gotfredson buses, three express cars, one snow plow, two box cars, four gondola freight cars and five flat cars.

Power

The steam power house for the system is situated on Park street in Kingsville and consists of a solid brick building with boiler house of concrete block.

Steam is generated in four 360-h.p. water-tube boilers. Electrical power is generated by two cross-compound horizontal slow-speed engines each direct connected to a 500-kw. Westinghouse single-phase 6,600-volt generator.

Rehabilitation

The railway system, in all its branches, has been poorly maintained and extensive rehabilitation is necessary throughout. The rehabilitation programme which has been approved by the Windsor, Essex and Lake Shore Electric Railway Association under the terms of its agreement with the Commission is outlined below, the estimated cost being \$674,000. This amount, together with the purchase cost of \$296,000 and expenses in connection with acquisition and financing will place the capital cost at \$1,000,000.

Way and Structures:

Reconstructing roadbed, including drainage, ballasting, retieing, replating joints and bonding.....	\$238,000	
Construction of new sidings.....	20,000	
New overhead and feeder system.....	140,000	
Telephone and signal system.....	21,000	
Track extension in Leamington.....	20,000	
New freight shed at Leamington and repairs to station buildings....	5,000	
		<hr/>
		\$444,000

Equipment:

5 new cars (4 motor, and 1 trail).....	\$112,000	
2 locomotives.....	18,000	
3 rebuilt city cars.....	20,000	
Repairs to buses.....	5,000	
		<hr/>
Total equipment.....		155,000

Power:

Construction of new substations.....	75,000	
		<hr/>
Grand total.....		<u>\$674,000</u>

Way and Structures

The work contemplated under this heading includes the partial reconstruction of approximately one mile of paved single track in Windsor and all of the paved track in Essex and Cottam. On the balance of the line, where open track exists, it is proposed to install 60,000 cedar ties, 7,000 four-hole angle bars to replace the existing two-hole bars now in use, and 13,000 bonds. It is also proposed to reballast a major portion of the line, repair small bridges and culverts and renew defective special work.

In order to provide passing points for the improved service to be inaugurated, provision has been made for the construction of new passing sidings.

Reconstruction of the overhead system includes the replacement of the majority of the wood poles, erection of new catenary construction throughout consisting of 7/16 steel-strand messenger and 4/0 grooved copper contact wire supported on existing mast arms, and the installation of an adequate feeder system.

Provision is made for the installation of new telephone and signal system throughout.

In Leamington an extension of approximately 4,000 feet of track is contemplated to accommodate summer traffic to Seaciff park and allowance is made for the construction of a new freight shed to take care of the increased business which is offered.

Rehabilitation work as outlined above is proceeding as rapidly as possible and the various materials necessary are being assembled. Due to the lateness of the season, the market for cedar ties is limited, but it is expected that half of the number required will be installed before the advent of severe weather. The partial reconstruction of the paved track in Windsor is practically completed, 15,000 cedar ties have been installed on the open track and 5,000 yards of ballast have been placed in the track to date. The freight shed at Leamington has been completed and is now in use.

GUELPH DISTRICT RAILWAYS

Way and Structures

The construction of a short spur to the Guelph Stove Company's plant on York road constituted the only track extension during the year. This spur was built under the terms of the Standard Siding agreement, the Stove Company assuming the perishable cost and paying a 6 per cent. per annum rental on the non-perishable cost. It is expected that considerable business will accrue to the railway as a result of this construction, the Stove Company having recently completed a large addition to its plant.

In addition to the general maintenance work performed throughout the year, major repairs were executed on the paved single track on Gordon street and the single track on Ontario street was partially rebuilt.

On Gordon street, 2,000 feet of paved single track extending from Waterloo avenue on the north to a point near the Speed River crossing on the south was repaired by removing the existing continuous joints and welding the rails together by means of the Thermit process.

On Ontario street from Neeve street to the C.P.R. diamond crossing, a distance of approximately one-half mile, major repairs were necessary. This single track is located in the centre of the street between two strips of concrete pavement. It consists of 60-pound rail on wood ties with gravel ballast and pavement. The light rail over which passed the heavy freight cars from the C.P.R. interchange was worn out, and was replaced with 80-pound A.S.C.E. rail. Ties were renewed where necessary and the gravel ballast and pavement replaced, the paving surface being treated with asphaltic oil and stone screenings.

The track on the Suffolk route is in poor condition. This route has been the subject of negotiations with the city during the year and estimates have been submitted showing the comparative costs of track renewal with continued street car operation, and bus operations, which latter substitute has been suggested. Negotiations in this connection are proceeding.

Operation

The operating revenue for the Guelph District Railways for 1929 was \$88,145 as compared with \$91,242 in 1928. The total operating expenses for the year 1929 were \$80,132, as compared with \$75,902 in 1928. Taxes for the year 1929 amounted to \$1,348 as compared with \$2,699 in 1928. The net operating revenue for the year 1929 amounted to \$8,014 as compared with \$15,340 in 1928. The interest and debenture payments were \$26,215 as compared with \$26,434 in 1928. The renewal set aside was \$10,252 as compared with \$10,275 in 1928. The deficit for the year 1929 amounted to \$29,802 as compared with \$24,068 in 1928.

Included in the above deficit is \$6,989 which has been set aside each year for amortizing the original value of the railway line previous to the transfer of this line to the Hydro-Electric Power Commission; and also an interest charge of \$4,711; renewal account for the year of \$10,252.

GUELPH DISTRICT RAILWAYS

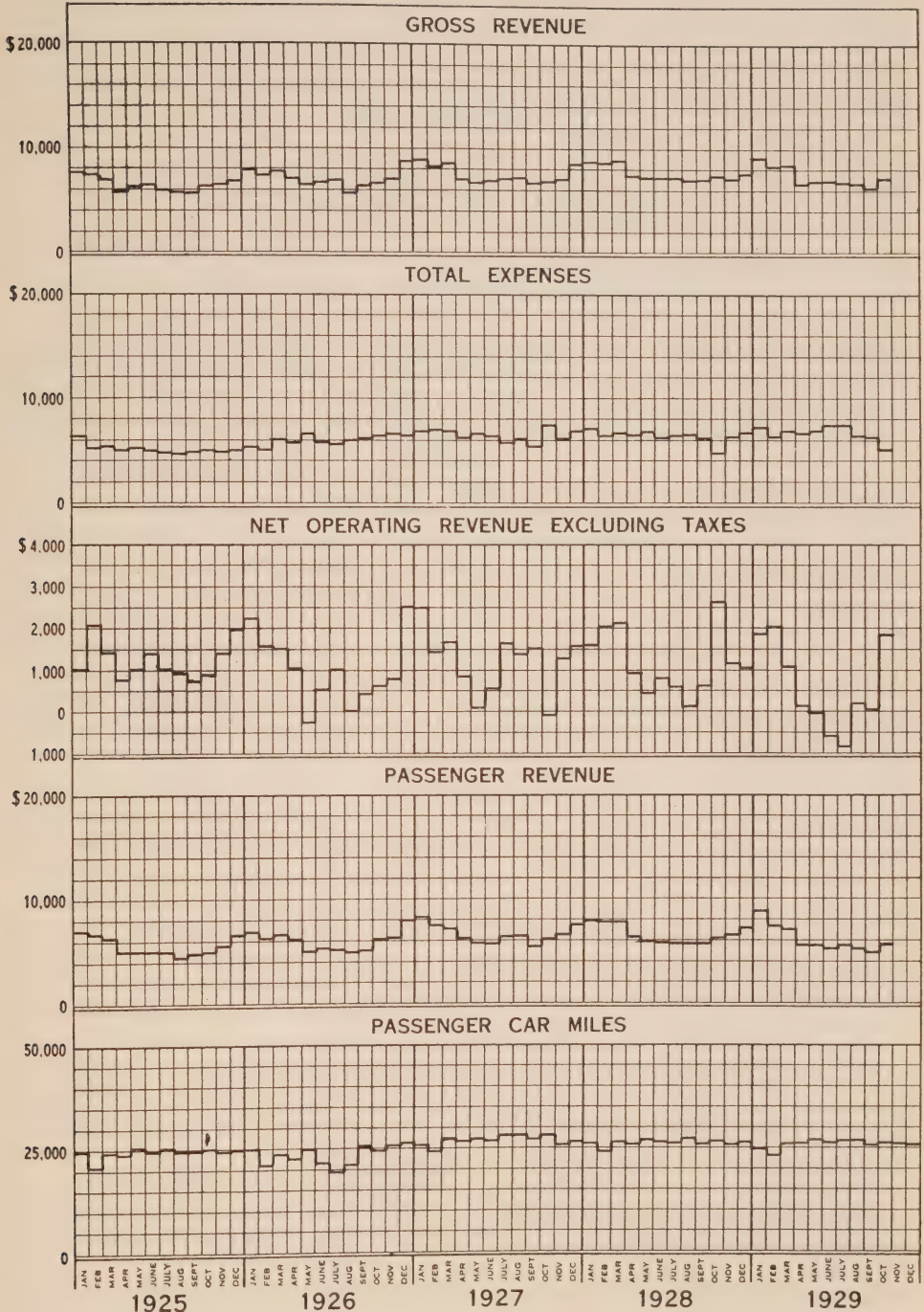
Operating Statistics, 1929

Route-miles:	
Trolley.....	8.49
Bus.....	1.65
Total route-miles.....	10.14
Track-miles, trolley.....	10.05
Passenger cars operated.....	8
Bus operated.....	1
Passenger car-miles operated.....	274,014
Bus-miles operated.....	39,054
Passenger car-hours operated.....	34,261
Bus-hours operated.....	6,198
Revenue passengers carried.....	1,397,011
Transfer passengers carried.....	268,462
Free passengers carried.....	3,658
Total passengers carried.....	1,669,131
Percentage of transfer passengers to revenue passengers.....	19.2
Freight motors operated.....	1
Freight motor-miles operated.....	10,342
Freight motor-hours operated.....	2,245
Total passenger, freight and service car-miles operated.....	323,658

Accidents, thirty-nine, of which thirty-four were due to automobiles.

Accidents per 100,000 car-miles, 1927—8.24; 1928—4.25; 1929—12.3.

GUELPH DISTRICT RAILWAYS—OPERATING STATISTICS



SECTION IX

FINANCIAL STATEMENTS

Relating to Properties Operated by The Hydro-Electric Power Commission on Behalf of Municipalities

The following explanatory statement is submitted with a view to affording a satisfactory understanding of the manner in which the various operations of the Hydro-Electric Power Commission of Ontario are conducted and financed and thus contributing to the interest of those concerned either directly or indirectly with the work of the Commission.

The "Hydro" electrical undertaking of Ontario is an organization of a large number of partner municipalities co-ordinated into groups or systems for securing common action with respect to power supplies, through the medium of the Hydro-Electric Power Commission which under the Power Commission Act functions as their trustee. The undertaking as a whole, embracing all the operations from the provision of the power down to its final delivery to the ultimate consumer, involves two distinct phases of operations.

The FIRST phase of operations is the provision of the electrical power—either by generation or purchase—and its transformation, transmission and delivery in *wholesale* quantities to individual municipal utilities, to large industrial consumers, and to rural power districts. This phase of the operations is performed by the Hydro-Electric Power Commission of Ontario as trustee for the municipalities acting collectively in groups or "systems," and the financial statements relating to these collective activities of the municipalities are presented in this section of the Annual Report.

The SECOND phase of operations is the *retail* distribution of electrical energy to consumers within the limits of the areas served by the various municipal utilities and rural power districts. In the case of rural power districts, which usually embrace within their confines portions of more than one township, the Hydro-Electric Power Commission not only provides the power at wholesale, but also—on behalf of the respective individual townships—attends to all physical and financial operations connected with the distribution of energy at retail to the consumers within the rural power districts.* The financial statements relating to the rural power districts are also presented in this section of the report. In the case of cities, towns, many villages and certain thickly populated areas of townships, retail distribution of electrical energy provided by the Commission is in general conducted by individual local municipal utility commissions under the general supervision of the Hydro-Electric Power Commission of Ontario. The balance sheets, operating reports and statistical data relating to such individual electrical utilities are presented in Section X of this report.

*For further information respecting rural power districts consult latter portion of Section III in this Report.

Having the foregoing distinctions respecting wholesale and retail electrical service in mind, the following brief notes will assist to an understanding of the economic structure and of the general plan of administration of the undertaking, and will make clearer the financial tables herein presented. The basic principle governing the financial operations of the undertaking is that electrical service be given by the Commission to the municipalities and by the municipalities to the ultimate consumers at cost.

The charges for power supplied by the Commission to the various municipalities vary with the amounts of power used, the distances from the sources of supply and other factors. The entire capital cost of the various power developments and transmission systems is annually allocated to the connected municipalities and other wholesale power consumers, according to the relative use made of the lines and equipment. Each municipality assumes responsibility for that portion of property employed in providing and transmitting power for its use, together with such expenses—including the cost of purchased power if any—as are incidental to the provision and delivery of its wholesale power. The entire annual expenses,—including appropriations for reserves,—incurred by the Commission in the supply of power at wholesale are thus paid out of revenues collected in respect of such power, through the medium of power bills rendered by the Commission. The municipalities are billed at an estimated interim rate each month during the year and credit or debit adjustment is made at the end of the year,* when the Commission's books are closed and the actual cost payable by each municipality for power received has been determined.

Included in the municipality's remittance to the Commission for the wholesale cost of power—besides such direct expenses as those for operation and maintenance of plant, for administration, and for interest on capital—are sums required to build up reserves for sinking fund, for renewals, and for obsolescence and contingencies. The first-mentioned reserve is for the purpose of liquidating the capital liabilities; consequently, as capital obligations are discharged the plant will progressively be freed from interest expense. The other reasons are, respectively, being created to provide funds for the replacing or rebuilding of plant as it wears out; to enable the undertaking to replace existing equipment with improved equipment as it becomes available through advances in science and invention, and to meet unforeseen expenses which from time to time may arise.

The ultimate source of all revenue to meet costs—whether for the larger operations of the Hydro-Electric Power Commission or for the smaller local operations of the municipalities—is, of course, the consumer. Out of the total revenue collected by each municipal utility from its consumers for service supplied, only an amount sufficient to pay the wholesale cost of power supplied by the Commission as outlined above is remitted to the Commission; the balance of municipal electrical revenue is retained to pay for the expense incurred by the local utility in distributing the electrical energy to its consumers.

The results obtained by the annual adjustments of the Commission's capital investment, operating expenses and fixed charges, as they affect individual municipalities are shown in the tables for the respective systems. For the purpose of financial statement, the various systems are treated as separate units and for

*The financial year for the Commission ends on October 31. The financial year for the municipal electric utilities, however, ends on December 31, and the municipal accounts are made up to this date, and so recorded in Section X.

each of them similar statements and details are presented. Many of the pages which follow, therefore, simply repeat for each system data similar to those which are presented for the first system dealt with in each division of the report, namely, the Niagara system. In order, therefore, to possess a ready grasp of all the figures presented in this and other similar reports of the Commission, all that is necessary is to have a true understanding of the financial procedure followed in connection with one system and with one municipal "Hydro" utility.

The accounts of the Hydro-Electric Power Commission of Ontario are verified by auditors specially appointed by the Provincial Government. The accounts of the "Hydro" utility of each individual municipality are prepared according to approved and standard practice and are also duly audited.

Tabular Data

The first tabular statement given in Section IX is a general balance sheet exhibiting the assets and liabilities of the undertakings relating to the properties constructed or otherwise acquired and being operated by the Commission as trustee for the municipalities of the various systems.

The general balance sheet is followed by groups of statements relating in turn to each system of the Commission. These statements, for each system, are similar in character and include:—

Operating Account for the year, showing, for the system as a whole, the various items of operating expense and fixed charges entering into the cost of power as defined by the Power Commission Act, and the revenues collected by the Commission from the partner municipalities and other consumers.

Cost of Power statement, which shows the apportionment to each municipality or rural power district of the items of cost summarized in the Operating Account, as well as the apportionment of the capital expenditures listed in the balance sheet and the amount of power taken by each municipality. It should be appreciated that the cost of power given in this table is the wholesale cost,—that is, the cost which the Commission receives for the power delivered from the main transformer stations serving the local utility or rural power district. In the case of rural power districts, the costs of power for the respective districts appear also in the "Rural Operating" statement, immediately following, as "Cost of power delivered"; in the case of municipal electrical utilities not directly administered by the Commission, the respective costs of power appear in Statement "B" of Section X as "Power purchased."*

Rural Operating statement, which shows for each rural power district the various items of cost, and the revenues received, in connection with the distribution of electrical energy to consumers.

Credit or Charge statement which shows the adjustments made in order to bring the amounts paid by each municipal electric utility to the actual cost of service to that municipality. These credits and charges are taken up and given effect to in the municipal accounts of "Hydro" utilities before the operating records of each year are closed.

Reserve for Renewals which shows the provisions made for, the expenditures from, and the balances to the credit of, this fund.

Reserve for Obsolescence and Contingencies which gives similar information with respect to this reserve.

*Consult footnote on previous page.

Sinking Fund statement which gives the accumulated total of the amounts paid by each municipality and rural power district as part of the cost of power together with its proportionate share of other sinking funds.

Sinking Fund Reserve which summarizes the provisions made with respect to this fund.

Section IX also contains operating accounts of the various electric railways operated by the Commission, and a summary of the "Appropriations, Advances and Capital Expenditures" made during the year.

All municipal "Hydro" utilities have current expenses to meet similar to the expenses of the Commission and have adopted the same financial procedure with respect to their operations. In other words, concurrently with the creation of funds to liquidate their debt to the Commission and to provide the necessary reserves to protect generating, transforming, and transmission systems, the municipalities are taking similar action with respect to their local "Hydro" utility systems.

The balance sheets, operating reports and statistical data appearing in Section X, under the heading of "Municipal Accounts," relate to the operation of local distribution systems by individual municipalities which have contracted with the Commission for their supply of electrical energy. To this section there is an explanatory introduction to which the reader is specially referred.

To illustrate further the foregoing explanatory comments, there is presented herewith a typical operating statement of an Ontario municipal electrical utility, covering its financial operations, both as a partner in a system of the Hydro-Electric Power Commission, and as administrator of its own local distribution system.

WINDSOR "HYDRO" UTILITY

OPERATING STATEMENT FOR THE YEAR 1929

REVENUE

Revenue from Windsor "Hydro" customers for year.....\$1,158,005. 38

EXPENSES

Representative illustration of expenses incurred by the Hydro-Electric Power Commission on behalf of a municipality in connection with the supplying of its electrical energy. These data really show—as determined by annual adjustment—what it costs the Commission to supply the municipality with its power. See "Cost of Power" statement, page 150, for the city of Windsor, as follows:

Cost (proportionate share) of operation and maintenance expense of Niagara generating plants, transformer stations and transmission lines together with administrative expenses.....	\$191,444.76
Interest on Windsor's proportionate share of capital investment in generating plants, transformer stations and transmission lines.....	266,374.63
Sinking Fund (proportionate share) provided in respect of generating plants, transformer stations and transmission lines.....	57,793.38

Renewal reserve (proportionate share) provided in respect of generating plants, transformer stations and transmission lines	\$37,919.59
Obsolescence and contingencies reserve (proportionate share) provided in respect of generating plants, transformer stations and transmission lines—a reserve created to meet any unforeseen contingency or obsolescence expense	101,243.73
	<hr/> \$654,776.09
<i>Expenses incurred by a municipality through its utility commission in connection with the sale of electrical energy to consumers. Consult the section dealing with the Municipal Accounts:</i>	
Operation, maintenance and administrative expenses	\$214,494.06
Interest and fixed charges on debenture debt	144,034.30
Depreciation charge	52,770.00
	<hr/> \$411,298.36
Total expenses charged against revenue from customers of the Windsor system	\$1,066,074.45
Net surplus for the year	<hr/> \$91,930.93

The municipality of Windsor, situated at the extreme end of the Niagara system, 250 miles distant from the source of power, Niagara Falls, Ontario, was connected to the system in October, 1914. This Hydro utility complied with every monetary obligation imposed upon it by the Power Commission Act. With the close of the fifteenth year of operation, this utility's total assets are \$4,441,447.14; liabilities, \$2,369,882.51, and reserves and surplus \$2,071,564.63, as shown in the municipalities' balance sheets, in Section X, Statement "A".

By reference to this municipality's balance sheet, it will be noted that the Windsor "Hydro" utility has created a sinking fund equity amounting to \$631,682.98 in the Hydro-Electric Power Commission System.

By reference to Statement "D" in Section X of this report it will be seen that under the low rate schedules prevailing throughout the Province, the rates in force in Windsor, have resulted in *average costs** to the various classes of service as follows: Domestic service (with an average monthly consumption per consumer of 192 kilowatt-hours) 1.6 cents per kilowatt-hour; commercial service 1.8 cents per kilowatt-hour; power service \$23.90 per horsepower per year. The actual *rates in force* are presented in Statement "E" and particulars of street lighting service are given in Statement "C".

*If proper differentiation be made by those undertaking research, between the very different entities of *rates* on the one hand and the derived quantities of *average costs or revenues* on the other, a great deal of confusion and misrepresentation will be avoided. Consult introduction to Statement "D" of Section X.

HYDRO-ELECTRIC POWER
Detailed Statements of Assets
POWER UNDER

ASSETS

Niagara System:

Generating plants:

Queenston-Chippawa development.....	\$76,312,502.17
Ontario Power development, including water rights....	22,067,044.25
Toronto Power development, including water rights...	11,327,094.02

Transmission lines:

Right-of-way.....	7,737,990.75
Steel-tower and wood-pole lines.....	20,501,187.14

Transformer stations.....	26,153,263.53
---------------------------	---------------

\$164,099,081.86

Distribution lines:

Rural power districts.....	\$3,863,226.34
Rural lines.....	41,850.93

3,905,077.27

\$168,004,159.13

Thunder Bay System:

Nipigon generating plants.....	\$12,654,614.89
Transmission lines.....	1,861,953.88
Transformer stations.....	808,842.23

15,325,411.00

Georgian Bay System:

Generating plants:

Big Chute development.....	\$673,499.21
Eugenia Falls development.....	1,210,097.73
Wasdell development.....	146,407.55
Muskoka development.....	1,216,845.70

Transmission lines.....	2,099,796.13
-------------------------	--------------

Transformer stations.....	642,570.24
---------------------------	------------

\$5,989,216.56

Distribution lines:

Rural power districts.....	\$260,316.61
Rural lines.....	2,807.43
Local distribution system.....	57,694.35

320,818.39

6,310,034.95

Eastern Ontario System:

Generating plants, including water rights.....	\$9,392,959.83
--	----------------

Transmission lines.....	3,813,135.03
-------------------------	--------------

Transformer stations.....	1,772,160.10
---------------------------	--------------

\$14,978,254.96

Rural power districts.....	\$487,188.03
----------------------------	--------------

Local distribution system.....	2,556,015.58
--------------------------------	--------------

3,043,203.61

18,021,458.57

Ottawa System:

Surveys and engineering re power sites on Ottawa river....	\$430,951.80
--	--------------

Transmission lines.....	20,992.28
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Transformers and meters.....	7,662.17
------------------------------	----------

\$459,606.25

Rural power district.....	77,588.15
---------------------------	-----------

537,194.40

Ear Falls generating plant:

Expenditures thereon to date.....	
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389,924.37

Carried forward.....\$208,588,182.42

**COMMISSION OF ONTARIO
and Liabilities, October 31, 1929
TAKINGS**

LIABILITIES

To Province of Ontario:

Cash advances for Niagara and other systems.....	\$173,589,916.68	
Less: Repayment under provisions of Power Commission Acts 1926 and 1927.....	9,067,606.06	
		\$164,522,310.62
Grants in the hands of the Commission to apply against certain rural power districts in course of construction or extension.....	\$54,684.26	
Less: Grants payable by the Province to the Commission in respect of certain rural power districts completed or in course of construction.....	3,234.02	
		51,450.24

Debentures issued by the Commission and guaranteed by the Province of Ontario:

Four percent debentures, due 1957, issued in purchase of Ontario Power Company of Niagara Falls.....	\$8,000,000.00	
Interest accrued thereon.....	80,000.00	
		\$8,080,000.00
Six percent debentures, due 1941, issued for the purpose of retiring the 1921 issue of the Ontario Power Company of Niagara Falls.....	\$3,200,000.00	
Interest accrued thereon.....	67,856.16	
		3,267,856.16
Six percent debentures, due 1940, issued in purchase of the Toronto Power Company, Limited.....	\$413,200.00	
Interest accrued thereon.....	10,330.00	
		423,530.00
Six percent debentures, due 1940, issued in purchase of certain electrical power equipment of the Toronto and York Radial Railway.....	\$205,800.00	
Interest accrued thereon.....	5,145.00	
		210,945.00
Five percent debentures, due 1939, issued for the purpose of retiring the 1924 issue of the Toronto Power Company, Limited....	\$4,000,000.00	
Interest accrued thereon.....	75,000.00	
		4,075,000.00
Four percent debentures, due 1958, issued in purchase of distribution lines of Essex County.....	\$200,000.00	
Interest accrued thereon.....	3,333.34	
		203,333.34
Four percent debentures, due 1958, issued in purchase of distribution lines in vicinity of Thorold.....	\$100,000.00	
Interest accrued thereon.....	1,666.67	
		101,666.67

Bonds and debenture stock assumed by the Commission and guaranteed by the Province of Ontario:

First mortgage 5% gold bonds, due 1943, of the Ontario Power Company of Niagara Falls:		
Amount assumed at date of purchase of company by Commission, August 1, 1917.....	\$9,834,000.00	
Less: Retired by the Commission.....	1,584,000.00	
	\$8,250,000.00	
Interest accrued thereon.....	103,125.00	
		\$8,353,125.00

Carried forward..... \$8,353,125.00 \$180,936,092.03

HYDRO-ELECTRIC POWER
Detailed Statement of Assets
POWER UNDER

ASSETS		
Brought forward.....		\$208,588.42
Madawaska Properties and other assets.....	\$1,864,647.32	
Less Current Account.....	9,817.88	
	<hr/>	
	\$1,854,829.44	
Portion of interest temporarily deferred.....	16,258.11	1,871,087.55
Bonnechere River Storage:		
Round Lake dam.....	\$23,072.93	
Golden Lake dam.....	11,092.81	
	<hr/>	34,165.74
Investment in 3,793 shares (out of a total of 7,104 shares) of Wahnapitae Power Company, Limited.....	\$1,175,830.00	
Interest on such investments, temporarily carried forward pending receipt of dividends.....	41,045.26	
	<hr/>	\$1,216,875.26
Service Buildings and Equipment:		
Service building and equipment, Toronto.....	\$487,002.72	
Equipment of storehouse and garage, Hamilton.....	3,666.40	
Pole yard and equipment, Cobourg.....	22,332.09	
Service building and equipment, Belleville.....	23,929.79	
Office building and storehouse, Belleville.....	17,685.64	
	<hr/>	554,616.64
Office Buildings:		
On University avenue, Toronto.....	\$525,007.00	
On corner Elm street and Centre avenue, Toronto.....	160,821.95	
	<hr/>	685,828.95
Office Furniture and Equipment:		
At Toronto office.....	\$66,405.67	
At Electrical Inspection offices.....	8,218.84	
	<hr/>	74,624.51
Automobiles and Trucks.....		15,663.60
Inventories:		
Construction and maintenance, tools and equipment.....	\$799,631.53	
Construction material and sundry supplies.....	534,194.93	
Maintenance, material and supplies.....	669,068.05	
Stationery and office supplies.....	20,728.94	
	<hr/>	2,023,623.45
Sinking Funds:		
Employed to make repayments to the Province of Ontario under the terms of the Power Commission Act 1926 and 1927.....	\$9,067,606.06	
Employed in retirement of bonds issued or assumed by the Commission and guaranteed by the province.....	5,076,510.54	
	<hr/>	\$14,144,116.60
Invested in securities of the Province of Ontario, which stand—		
(a) Deposited with Provincial Treasurer, par value \$916,000.00.....	\$899,750.49	
(b) In the hands of the Commission, par value \$255,000.00....	245,625.87	
Interest accrued thereon.....	19,333.41	
	<hr/>	1,164,709.77
Insurance Funds:		
(a) Invested in securities of the Dominion of Canada, par value \$650,000.00.....	\$659,882.25	
(b) Invested in securities of the Province of Ontario, par value \$28,000.00.....	28,942.83	
Interest accrued thereon.....	621.16	
	<hr/>	689,446.24
Staff Pension Funds:		
Invested in securities of the Province of Ontario, par value, \$1,775,000.00.....	\$1,740,341.51	
Interest accrued thereon.....	16,167.81	
	<hr/>	1,756,509.32
Carried forward		\$218,675,333.45

COMMISSION OF ONTARIO and Liabilities—Continued

TAKINGS—Continued

LIABILITIES

Brought forward.....		\$8,353,125.00	\$180,936,092.03
Bonds and debenture stock assumed by the Commission and guaranteed by the Province of Ontario—Continued			
First mortgage 5% gold bonds, due 1945, of the Ontario Trans- mission Company, Limited:			
Amount assumed at date of purchase of Company by Commission, August 1, 1917	\$1,772,000.00		
Less: Retired by the Commission.....	380,000.00		
	\$1,392,000.00		
Interest thereon payable November 1, 1929	34,800.00		
		\$1,426,800.00	
Guaranteed 4½% debenture stock, due 1941, of the Toronto Power Company, Limited:			
Amount assumed at date of purchase of com- pany by Commission, December 1, 1920.	\$13,558,917.81		
Less: Retired by the Commission.....	5,560,448.93		
	\$7,998,468.88		
Interest thereon payable November 1, 1929	179,965.55		
		8,178,434.43	
First mortgage 5% gold bonds, due 1933, of the Electrical Development Company of Ontario, Limited:			
Amount assumed at date of purchase of com- pany by Commission, December 1, 1920..	\$4,335,000.00		
Less: Retired by the Commission.....	805,000.00		
	\$3,530,000.00		
Interest accrued thereon.....	29,416.67		
		3,559,416.67	
			21,517,776.10
Other debentures assumed:			
In respect of purchase of lines at Streetsville:			
Amount assumed at date of purchase.....	\$6,000.00		
Less: Retired by the Commission.....	3,915.55		
	\$2,084.45		
Interest accrued thereon.....	52.11		
		2,136.56	
In respect of purchase of original Muskoka power development:			
Amount assumed at date of purchase.....	\$50,595.93		
Less: Retired by the Commission.....	23,853.87		
	\$26,742.06		
Interest accrued thereon.....	1,003.82		
		27,745.88	
In respect of purchase of sundry rural lines:			
Amount assumed at dates of purchase.....	\$63,501.03		
Less: Retired by the Commission.....	17,117.90		
	\$46,383.13		
Interest accrued thereon.....	1,093.42		
		47,476.55	
			\$77,358.99
Outstanding share capital of the Electrical Development Company of Ontario, Limited.....			1,100.00
Accounts payable.....			606,849.59
Interest coupons due but not presented for payment.....			30,968.19
Insurance department:			
Outstanding claims and awards.....	\$718,613.91		
Surplus.....	77,946.96		
			796,560.87
Reserve for staff pensions.....			1,764,452.80
Carried forward.....			\$205,731,158.57

HYDRO-ELECTRIC POWER

Detailed Statement of Assets

POWER UNDER

ASSETS

Brought forward.....	\$218,675,333.45	
Reserve Funds:		
(a) Invested in securities of the Dominion of Canada, par value, \$3,751,850.00.....	\$3,753,348.92	
(b) Invested in securities of the Province of Ontario, par value \$17,065,000.00..... (\$30,500.00 of these securities stand deposited with Canada Trust Company.)	16,731,787.53	
(c) Invested in securities of the Commission guaranteed by the Province of Ontario, par value \$3,179,205.00.....	3,131,341.04	
(d) Invested in bonds of the Temiskaming and Northern Ontario Railway, guaranteed by the Province of Ontario, par value \$240,000.00.....	205,058.59	
(e) Invested in debentures of Ontario municipalities, par value \$1,060,008.66.....	996,798.16	
Interest accrued thereon.....	261,700.95	
		\$25,080,035.19
Cash:		
In banks.....	\$2,200,672.71	
In banks to pay bond interest due November 1, 1929, and interest coupons overdue but not presented.....	245,733.74	
Sinking funds on deposit with trustees for bondholders.....	5,550.11	
In hands of employees as advances on account of expenses...	122,846.21	
	\$2,574,802.77	
Less: Funds of Hydro Radial Railways shown elsewhere in this balance sheet.....	37,501.24	
		2,537,301.53
Accounts receivable:		
Due by municipalities and sundry customers in respect of construction work, supply sales, etc.....	\$375,138.06	
Less: Reserve for doubtful accounts.....	16,086.15	
		359,051.91
Due by municipalities and sundry customers in respect of power accounts.....	\$3,150,471.52	
Less: Reserve for doubtful accounts.....	296,804.31	
		2,853,667.21
Sinking fund and interest accounts owing in respect of rural lines.....		1,086.33
Due by town of Renfrew for water used from Bonnechere Storage for power purposes.....		32,859.33
Claim against Dominion Government in respect of income taxes paid for the thirteen months ending December 31, 1921, which should be recoverable..		72,334.46
Balances due by municipalities in respect of the costs of power supplied to them, as provided to be paid under the Power Commission Act:		
Niagara system.....	\$19,889.62	
Georgian Bay system.....	11,713.14	
Eastern Ontario system.....	13,854.16	
		45,456.92
Carried forward.....		\$249,657,126.33

COMMISSION OF ONTARIO

and Liabilities—Continued

TAKINGS—Continued

LIABILITIES

Brought forward.....		\$205,731,158.5
Balances due to municipalities in respect of amounts paid by them to October 31, 1927, in excess of the cost of power supplied to them as provided to be paid under the Power Commission Act:		
Niagara system.....	\$1,453,295.46	
Thunder Bay system.....	21,822.04	
Georgian Bay system.....	92,732.41	
Eastern Ontario system.....	119,069.49	
Ottawa system.....	3,001.60	
		\$1,689,921.00
Reserves for Sinking Fund:		
Niagara system.....	\$14,172,354.72	
Niagara rural lines.....	11,922.25	
Thunder Bay system.....	409,789.88	
Georgian Bay system.....	504,364.41	
Georgian Bay rural lines.....	540.06	
Eastern Ontario system.....	298,267.74	
Ottawa system.....	4,110.88	
Bonnechere storage.....	10,038.09	
	\$15,411,388.03	
Service buildings.....	82,835.66	
Office buildings.....	107,348.52	
		15,601,572.21
Reserves for Renewals:		
Niagara system.....	\$11,141,761.15	
Niagara rural lines.....	3,242.84	
Thunder Bay system.....	635,246.86	
Georgian Bay system.....	879,438.33	
Georgian Bay rural lines.....	238.24	
Eastern Ontario system.....	2,401,817.09	
Ottawa system.....	13,075.15	
Bonnechere storage.....	5,687.46	
	\$15,080,507.12	
Service buildings.....	263,002.53	
Office buildings.....	89,567.84	
		15,433,077.49
Reserves for Obsolescence and Contingencies:		
Niagara system.....	\$10,610,226.94	
Niagara rural lines.....	1,315.50	
Thunder Bay system.....	521,483.80	
Georgian Bay system.....	270,696.96	
Georgian Bay rural lines.....	88.18	
Eastern Ontario system.....	746,958.99	
Ottawa system.....	7,548.14	
Bonnechere storage.....	725.42	
		12,159,043.93
Balance at credit of interest account.....		46,734.79
Contingent liabilities:		
In respect of contracts entered into for power undertakings in course of construction.....		
	\$4,214,302.34	
Carried forward.....		\$250,661,507.99

HYDRO-ELECTRIC POWER

Detailed Statement of Assets

POWER UNDER-

ASSETS

Brought forward.....		\$249,657,126.33
Work in progress:		
Expenditure on account of various systems chargeable upon completion to—		
Capital construction.....	\$25,873.53	
Operating and maintenance expenses.....	964.83	
		\$26,838.36
Insurance unexpired.....		31,425.98
Discount on debentures issued by the Commission, less amounts written off:		
On debenture issue of \$3,200,000 maturing 1941.....	\$91,122.81	
On debenture issue of \$4,000,000 maturing 1939.....	61,527.60	
		152,650.41
Total Power Undertakings.....		\$249,868,041.08

RADIAL RAILWAY

Sandwich, Windsor and Amherstburg Railway:		
Road and equipment.....	\$5,396,379.73	
Materials and supplies.....	126,591.65	
Cash in banks:		
In the general bank account of the Commission at Toronto.....	\$37,347.84	
In branch banks.....	2,925.20	
Accounts receivable.....	34,689.76	
		74,962.80
Insurance and expenses prepaid.....		8,329.81

Carried forward..... \$5,606,263.99\$249,868,041.08

COMMISSION OF ONTARIO

and Liabilities—Continued

TAKINGS—Continued

LIABILITIES

Brought forward.....	\$250,661,507.99
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Total Power Undertakings.....	\$250,661,507.99
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UNDERTAKINGS

In respect of the Sandwich, Windsor and Amherstburg Railway:
 Debentures issued by the Commission and guaranteed by the
 Province of Ontario:

Four and one-half percent debentures, due 1960, issued in purchase of the railway.....	\$2,039,000.00
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Four and one-half percent debentures, due 1960, issued for the purpose of making extensions and betterments.....	61,000.00
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Six percent debentures, due 1961, issued for the purpose of making extensions and bet- terments.....	900,000.00
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Five percent debentures, due 1943, issued for purpose of making extensions and better- ments.....	966,205.00
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Five percent debentures, due 1945, issued for the purpose of making extensions and better- ments.....	750,000.00
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Five percent debentures, due 1945, issued for the purpose of making extensions and bet- terments.....	100,000.00
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Five percent debentures, due 1946, issued for the purpose of making extensions and bet- terments.....	600,000.00
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(Note: Further bonds to the amount of \$400,-
000 stood guaranteed by the Province of
Ontario as at October 31, 1929—such bonds
had not been executed or issued by the
Commission. These bonds are held for
future commitments in connection with con-
struction programmes already approved and
now in progress.)

	\$5,416,205.00
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Interest accrued thereon.....	56,125.06
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	\$5,472,330.06
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Accounts payable and accrued charges.....	\$7,314.59
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Provision for unredeemed tickets.....	12,000.00
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Deposit to cover cost of industrial spur.....	2,000.72
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	21,315.31
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Carried forward.....	\$5,493,645.37	\$250,661,507.99
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HYDRO-ELECTRIC POWER
Detailed Statement of Assets
RADIAL RAILWAY

ASSETS

Brought forward..... \$5,606,263.99\$249,868,041.08

Sandwich, Windsor and Amherstburg Railway— Continued		5,606,263.99
Guelph Radial Railway:		
Road and equipment.....	\$435,772.94	
Materials and supplies.....	7,785.50	
Investments—Reserve funds.....	\$22,402.43	
Interest accrued thereon.....	472.33	
	22,874.76	
Cash in banks:		
In the general bank account of the Com- mission at Toronto.....	\$153.40	
In bank at Guelph.....	818.55	
Accounts receivable.....	2,708.01	
	3,679.96	
Insurance and expenses prepaid.....	\$1,832.44	
Valuation and other expenses re purchase of plant assets by the Commission, less 90% written off.....	256.30	
	2,088.74	
Due by the City of Guelph:		
Operating deficit for the year ending October 31, 1929, as per operating account.....	\$29,802.48	
Less: Paid on account by the city.....	25,931.73	
	3,870.75	
		476,072.65
Toronto and York Radial Railway:		
City of Toronto—debentures held as collateral security for the repayment of the Hydro Radial debentures issued in purchase of the Toronto and York Radial Railway—as per agreement covering the transfer (in January, 1927) of the railway to the City of Toronto.....	\$2,375,000.00	
City of Toronto—interest accrued on \$2,375,000 debentures issued by the Commission in purchase of the Toronto and York Radial Railway.....	59,375.00	
		2,434,375.00
Port Credit to St. Catharines Radial Railway:		
Purchase of right-of-way and carrying charges (taxes, less rental revenue) down to October 31, 1929.....	\$72,114.38	
Construction materials purchased, less amount realized on sale thereof.....	117,510.09	
Surveying, engineering, administrative expenses and interest	292,542.05	
		482,166.52
Toronto to Port Credit Radial Railway:		
Purchase of right-of-way and carrying charges (taxes less rental revenue) down to October 31, 1929—less amounts realized on properties sold.....	\$448,652.78	
Surveying, engineering, administrative expenses and interest	362,647.61	
		811,300.39
		\$259,678,219.63

COMMISSION OF ONTARIO

and Liabilities

UNDERTAKINGS

LIABILITIES

Brought forward.....	\$5,493,645.37	\$250,661,507.99
In respect of the Sandwich, Windsor and Amherstburg Railway—		
Continued		
Premiums (less discount) on sale of debentures less portion written off.....	\$58,932.98	
Reserve for renewal of road and equipment.....	53,685.64	
Contingent Liability:		
In respect of contract entered into for work under construction, \$14,918.38.		
		<hr/> \$5,606,263.99
In respect of the Guelph Radial Railway:		
City of Guelph—purchase price of the railway payable thereto, in half-yearly instalments, according to purchase agreement.....	\$150,000.00	
Less: Sixteen instalments paid thereon.....	47,038.33	
		<hr/> \$102,961.67
Debentures issued by the Commission and guaranteed by the Province of Ontario:		
Six percent debentures, due 1931, issued for the purpose of making extensions and betterments.....		276,000.00
Instalments of principal and interest payable to the City of Guelph, May 1 and November 1, 1929, under the terms of the purchase agreement.....		11,700.00
Accounts payable and accrued charges.....	\$1,030.29	
Provision for unredeemed tickets.....	1,300.00	
		<hr/> 2,330.29
Premiums on sale of debentures—less portion written off.....		3,468.28
Reserve—created by payment of instalments on the purchase price out of the revenue of the road and assessments against the City of Guelph.....		47,038.33
Reserve for renewal of road and equipment.....		32,574.08
Contingent Liability:		
In respect of contracts entered into for work under construction, \$1,199.37.		
		<hr/> 476,072.65
In respect of Toronto and York Radial Railway:		
Debentures issued by the Commission and guaranteed by the Province of Ontario:		
Six percent debentures, due 1940, issued in purchase of the Metropolitan, Scarboro, and Mimico Radial Railway divisions.....	\$2,375,000.00	
Interest accrued thereon.....	59,375.00	
		<hr/> 2,434,375.00
In respect of the Port Credit to St. Catharines Radial Railway:		
Bank of Montreal—advances (secured by hypothecation of \$1,200,000 Hydro Radial debentures, being part of an issue of \$11,360,363 guaranteed by the Province of Ontario)....		500,000.00
		<hr/>

\$259,678,219.63

NIAGARA

Operating Account for the

COSTS OF OPERATION AS PROVIDED FOR UNDER THE TERMS OF THE
POWER COMMISSION ACT

Power purchased.....		\$1,638,516.84	
Costs of operation and maintenance, including the proportion of administrative expenses chargeable to the operation of this system:			
Generation and transmission equipment.....	\$4,344,383.65		
Rural power districts.....	367,223.50		
			4,711,607.15
Interest on capital investment in:			
Generation and transmission equipment.....	\$7,939,185.07		
Rural power districts.....	156,259.41		
			8,095,444.48
Provision for renewals of:			
Generation and transmission equipment.....	\$990,170.86		
Rural power districts.....	137,071.36		
			1,127,242.22
Provision for obsolescence and contingencies in respect of:			
Generation and transmission equipment.....	\$3,049,070.26		
Rural power districts.....	68,535.68		
			3,117,605.94
Provision for sinking funds for repayment of the cash advances by the province of Ontario to the Commission and for the retirement of the bonds issued by and assumed by the Commission:			
By charges included in the cost of power delivered to muni- cipalities and rural power districts.....	\$1,196,952.42		
By charges against contracts with private companies which purchase power.....	504,900.58		
By charges included in the cost of distribution of power within rural power districts.....	36,330.90		
			1,738,183.90
			<u>\$20,428,600.53</u>

SYSTEM

Year Ending October 31, 1929

REVENUE FOR PERIOD

Collected from municipalities.....	\$14,384,660.61	
Power sold to private companies.....	5,748,505.50	
Power supplied at cost to the Hydro Radial Railway (S.W. & A.)	98,664.17	
Collected from customers in rural power districts.....	1,432,978.27	
		<u>\$21,664,808.55</u>
Add:		
Amounts due by certain municipalities, being the difference between the sums paid and the cost of power supplied to them in the year.....	\$5,505.93	
Amounts due by municipalities comprising certain rural power districts, being the difference between the revenue collected from customers therein and the cost of power supplied them in the year.....	13,688.99	
		<u>19,194.92</u>
		<u>\$21,684,003.47</u>
Deduct:		
Amounts collected from certain municipalities in excess of the sums required to be paid by them for power supplied in the year.....	\$1,074,655.61	
Amounts collected from customers in certain rural power districts in excess of the cost of power delivered thereto..	180,747.33	
		<u>1,255,402.94</u>
Revenue.....		<u>\$20,428,600.53</u>

\$20,428,600.53

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1929	To Oct. 31 1929				Operating, maintenance and administrative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Acton.....		34.00	137,674.97	557.1	1,099.13	4,458.31	6,615.34
Agincourt.....	42.00	44.00	39,060.63	116.6	230.04	1,295.30	1,781.70
Ailsa Craig.....	50.00	48.00	35,490.12	101.5	200.25	1,606.62	1,646.49
Alvinston.....		90.00	61,021.57	74.9	147.77	1,696.35	2,783.77
Amherstburg...	42.00	40.00	142,532.95	515.0	1,016.07	4,774.96	6,747.95
Ancaster twp....		30.00	64,484.64	324.6	640.42	2,440.49	3,158.21
Arkona.....	85.00	75.00	32,503.45	56.4	111.27	1,040.40	1,506.76
Aylmer.....	40.00	38.00	116,471.75	440.2	868.49	3,271.86	5,535.83
Ayr.....		35.00	36,180.27	146.0	288.05	1,431.93	1,723.26
Baden.....	34.00	32.00	71,611.01	294.6	581.23	2,183.99	3,425.13
Barton twp....		30.00	31,648.21	171.9	339.15	1,600.44	1,574.19
Beachville.....		34.00	67,533.07	294.7	581.43	2,313.17	3,186.46
Belle River.....	40.00	38.00	31,749.82	121.5	239.71	1,199.91	1,509.78
Blenheim.....		39.00	91,228.06	327.6	646.34	3,137.30	4,306.85
Blyth.....	65.00	63.00	36,545.15	80.7	159.22	1,161.29	1,684.87
Bolton.....	50.00	46.00	32,477.74	91.8	181.12	890.92	1,505.13
Bothwell.....		45.00	29,756.56	98.3	193.94	1,121.24	1,375.36
Brampton.....		30.00	382,222.03	1,799.1	3,549.54	12,218.56	18,513.98
Brantford.....		27.00	2,090,651.11	10,123.1	19,972.39	55,601.48	100,828.47
Brantford twp....		27.00	90,873.79	437.3	862.77	3,260.23	4,395.55
Bridgeport.....	32.60	32.00	36,250.90	173.2	341.71	2,082.24	1,789.62
Brigden.....	88.00	75.00	41,251.39	82.5	162.77	1,893.20	1,904.06
Brussels.....	55.00	52.00	47,833.96	117.0	230.83	1,522.48	2,206.68
Burford.....	46.00	40.00	37,858.04	137.4	271.08	1,477.23	1,793.43
Burgessville....	53.00	46.00	17,225.42	56.1	110.68	566.76	811.49
Caledonia.....		29.00	54,855.71	258.1	509.22	1,565.18	2,666.48
Campbellville....		70.00	5,606.80	23.6	46.56	815.22	263.23
Cayuga.....		60.00	30,884.20	71.4	140.87	897.99	1,444.90
Chatham.....		30.00	1,034,593.59	4,699.9	9,272.68	30,203.01	49,676.21
Chippawa.....		25.00	36,985.89	214.7	423.59	1,329.18	1,839.62
Clifford.....	58.00	56.00	23,385.00	49.8	98.25	560.06	1,090.68
Clinton.....		38.00	119,273.26	414.7	818.18	3,897.94	5,658.35
Comber.....		45.00	44,764.36	136.9	270.10	1,708.17	2,088.39
Cottam.....	50.00	45.00	16,344.77	50.8	100.23	553.82	775.41
Courtright.....		80.00	21,589.27	38.2	75.37	752.69	963.13
Dashwood.....	55.00	50.00	24,659.48	65.6	129.43	902.68	1,147.60
Delaware.....	42.00	38.00	7,497.52	31.4	61.95	267.12	358.36
Dorchester.....	40.00	38.00	19,017.06	75.4	148.76	846.17	880.55
Drayton.....		55.00	38,558.32	85.9	169.48	1,313.22	1,794.76
Dresden.....	42.00	45.00	88,354.39	284.0	560.32	5,169.43	4,156.36

SYSTEM

COST OF POWER

the Power Commission Act) of Power supplied to it by the Commission; the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1929

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,138.30	2,411.48	1,455.54	294.32	17,472.42	18,940.63	1,468.21	.....
343.84	558.17	394.75	61.60	4,665.40	5,091.79	426.39	.....
358.30	527.13	371.72	53.62	4,764.13	4,913.27	149.14	.....
782.79	694.27	641.22	39.57	6,785.74	6,738.00	.....	47.74
1,217.82	2,409.79	1,488.57	272.08	17,927.24	20,769.10	2,841.86	.....
427.00	1,242.72	679.23	171.49	8,759.56	9,739.00	979.44	.....
387.75	404.97	341.26	29.80	3,822.21	4,317.30	495.09	.....
993.82	1,964.00	1,218.93	232.56	14,085.49	16,892.40	2,806.91	.....
294.12	629.42	378.48	77.13	4,822.39	5,109.82	287.43	.....
580.16	1,277.79	756.25	155.64	8,960.19	9,538.83	578.64	.....
189.41	621.38	333.92	90.82	4,749.31	5,157.25	407.94	.....
507.92	1,233.53	704.65	155.69	8,682.85	10,020.09	1,337.24	.....
258.37	545.21	330.87	64.19	4,148.04	4,655.44	507.40	.....
796.75	1,539.85	955.12	173.07	11,555.28	12,775.30	1,220.02	.....
402.94	490.78	379.70	42.63	4,321.43	5,111.53	790.10	.....
330.89	475.88	342.06	48.50	3,774.50	4,293.16	518.66	.....
274.57	482.34	311.51	51.93	3,810.89	4,424.97	614.08	.....
2,702.49	6,975.71	4,027.16	950.48	48,937.92	58,098.25	9,160.33	.....
14,118.06	39,177.72	21,837.78	5,348.11	256,884.01	273,325.24	16,441.23	.....
612.80	1,695.33	945.40	231.03	12,003.11	11,807.06	.....	196.05
253.36	689.65	383.03	91.50	5,631.11	5,560.12	.....	70.99
472.79	559.78	432.91	43.59	5,469.10	6,420.75	951.65	.....
505.94	670.86	495.55	61.81	5,694.15	6,148.92	454.77	.....
334.25	637.44	396.52	72.59	4,982.54	5,625.49	642.95	.....
162.46	266.24	180.32	29.64	2,127.59	2,650.13	522.54	.....
394.70	1,016.76	578.81	136.35	6,867.50	7,485.34	617.84	.....
41.50	94.83	57.07	12.47	1,330.88	1,649.63	318.75	.....
344.82	428.25	325.54	37.72	3,620.09	4,282.75	662.66	.....
7,317.47	19,038.16	10,815.29	2,482.99	128,805.81	141,269.86	12,464.05	.....
214.70	748.10	393.34	113.43	5,061.96	5,367.47	305.51	.....
265.85	303.66	246.38	26.31	2,591.19	2,807.84	216.65	.....
1,081.77	1,909.20	1,256.99	219.09	14,841.52	15,299.64	458.12	.....
432.64	692.09	469.11	72.33	5,732.83	6,161.97	429.14	.....
154.96	255.13	171.28	26.84	2,037.67	2,330.93	293.26	.....
245.27	259.79	218.94	20.18	2,535.37	3,055.97	520.60	.....
257.40	348.68	258.37	34.66	3,078.82	3,340.27	261.45	.....
58.73	132.94	78.41	16.59	974.10	1,216.30	242.20	.....
148.02	324.67	193.19	39.83	2,581.19	2,893.33	312.14	.....
431.86	515.03	406.23	45.38	4,675.96	4,723.09	47.13	.....
830.16	1,410.14	925.90	150.04	13,202.35	12,619.76	.....	582.59

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1, 1929	To Oct. 31 1929				Operating, maintenance and administrative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Drumbo.....	47.00	45.00	17,772.45	59.8	117.98	869.09	833.60
Dublin.....	53.00	50.00	19,986.28	52.1	102.79	966.60	906.78
Dundas.....		25.00	291,973.13	1,559.8	3,077.41	7,319.47	14,258.65
Dunnville.....	41.00	38.00	157,706.42	604.0	1,191.66	4,188.37	7,594.76
Dutton.....	40.00	38.00	48,043.04	194.9	384.53	2,638.59	2,280.01
East Windsor.....		33.00	864,141.98	3,762.0	7,422.25	25,499.44	41,483.27
Elmira.....		31.00	257,391.24	1,071.3	2,113.62	7,133.54	12,226.31
Elora.....		35.00	104,719.96	408.8	806.54	3,361.26	5,035.84
Embro.....	60.00	55.00	29,857.81	74.5	146.99	1,057.88	1,383.76
Erieau.....		58.00	18,830.22	46.0	90.76	755.71	879.60
Erie Beach.....		65.00	5,598.90	11.1	21.90	310.30	259.73
Essex.....	38.00	35.00	76,608.72	301.0	593.86	2,311.11	3,651.42
Etobicoke twp..		30.00	500,660.04	2,306.9	4,551.40	12,915.66	23,995.96
Exeter.....	42.00	38.00	109,979.57	390.3	770.04	4,239.07	5,192.66
Fergus.....		35.00	136,008.57	545.3	1,075.85	4,285.24	6,572.91
Fonthill.....		35.00	21,305.72	99.8	196.90	1,039.27	1,051.34
Forest.....	50.00	48.00	90,894.35	257.2	507.44	3,078.68	4,256.74
Galt.....	27.50	27.00	1,327,323.49	6,514.9	12,853.59	38,603.87	64,685.20
Georgetown.....	36.00	35.00	229,429.90	834.0	1,645.44	6,757.97	10,967.32
Glencoe.....		60.00	64,989.21	153.8	303.44	2,192.35	3,023.04
Goderich.....		42.00	327,729.69	1,007.9	1,988.54	10,178.11	15,439.89
Granton.....	50.00	48.00	21,654.73	62.1	122.52	787.07	1,007.77
Guelph.....		27.00	1,530,419.19	8,030.6	15,843.99	49,284.24	75,067.77
Hagersville.....		31.00	234,759.15	1,022.1	2,016.55	6,187.47	11,330.82
Hamilton.....	25.00	23.50	10,892,044.34	59,161.1	116,722.02	251,036.63	538,184.52
Harriston.....	44.00	42.00	84,535.39	282.4	557.16	3,010.97	3,999.70
Harrow.....	45.00	40.00	62,365.08	236.8	467.20	2,566.16	2,979.27
Hensall.....		50.00	45,001.26	127.0	250.56	1,533.00	2,104.91
Hespeler.....		29.00	240,793.67	1,124.3	2,218.19	7,239.91	11,713.70
Highgate.....		44.00	29,507.65	93.4	184.27	1,097.41	1,380.77
Humberstone.....		28.00	59,700.57	298.3	588.53	2,091.80	2,921.34
Ingersoll.....	29.00	28.00	442,200.36	2,172.8	4,286.83	13,245.56	21,326.22
Jarvis.....		38.00	44,965.98	151.5	298.90	1,165.22	2,141.03
Kingsville.....	42.00	40.00	110,714.58	402.8	794.71	3,855.63	5,254.04
Kitchener.....		27.00	3,105,863.58	15,303.8	30,193.67	85,435.56	151,626.39
Lambeth.....	45.00	42.00	27,677.04	96.8	190.98	1,171.75	1,309.34
La Salle.....	40.00	38.00	65,955.29	250.8	494.82	2,309.07	3,180.75
Leamington.....	40.00	38.00	254,509.68	881.3	1,738.76	8,065.37	11,305.95
Listowel.....	37.00	36.00	190,776.63	734.3	1,448.74	6,495.35	9,128.38
London.....		26.00	5,355,880.62	27,058.0	53,384.14	131,805.20	258,987.76

SYSTEM—Continued

COST OF POWER

the Power Commission Act) of Power supplied to it by the Commission; the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1929

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
163.39	283.34	185.15	31.59	2,484.14	2,711.68	227.54	.....
200.96	305.81	203.59	27.52	2,714.05	2,632.30	.....	81.75
1,790.67	5,676.17	3,080.53	824.05	36,026.95	39,656.45	3,629.50	.....
1,409.24	2,448.87	1,671.99	319.10	18,823.99	23,289.47	4,465.48	.....
385.04	844.97	501.09	102.97	7,137.20	7,474.39	337.19	.....
6,224.62	15,622.12	8,998.49	1,987.49	107,237.68	124,147.36	16,909.68	.....
1,999.52	4,527.42	2,672.72	565.98	31,239.11	33,209.24	1,970.13	.....
895.36	1,796.53	1,110.25	215.97	13,221.75	14,308.16	1,086.41	.....
320.69	430.53	313.12	39.36	3,692.33	4,163.23	470.90	.....
202.03	263.20	197.39	24.30	2,412.99	2,666.99	254.00	.....
64.57	72.79	58.74	5.86	793.89	718.20	.....	75.69
614.57	1,339.20	801.79	159.02	9,470.97	10,695.36	1,224.39	.....
3,459.07	9,196.81	5,186.90	1,218.75	60,524.55	69,206.75	8,682.20	.....
980.36	1,774.82	1,150.39	206.20	14,313.54	15,086.49	772.95	.....
1,139.33	2,334.65	1,442.36	288.09	17,138.43	19,086.62	1,948.19	.....
161.56	374.31	226.22	52.73	3,102.33	3,491.22	388.89	.....
908.28	1,392.92	952.52	135.88	11,232.46	12,434.57	1,202.11	.....
9,014.59	25,238.73	14,024.99	3,441.87	167,862.84	184,841.99	16,979.15	.....
2,066.26	3,773.51	2,433.25	440.61	28,084.36	29,335.06	1,250.70	.....
706.04	897.70	681.46	81.25	7,885.28	9,227.00	1,341.72	.....
3,197.91	4,914.25	3,454.28	532.48	39,705.46	41,096.95	1,391.49	.....
217.81	314.02	226.43	32.81	2,708.43	3,004.25	295.82	.....
9,569.29	29,790.00	16,180.52	4,242.63	199,978.44	216,825.48	16,847.04	.....
1,822.60	4,202.55	2,474.35	539.98	28,574.32	31,685.24	3,110.92	.....
65,186.06	213,855.48	114,922.88	31,255.27	1,331,162.86	1,409,879.07	78,716.21	.....
786.38	1,361.39	890.89	149.19	10,755.68	11,954.68	1,199.00	.....
515.11	1,056.29	652.97	125.10	8,362.10	9,652.71	1,290.61	.....
457.24	651.73	471.37	67.10	5,535.91	6,352.02	816.11	.....
1,731.67	4,457.92	2,543.89	593.98	30,499.26	34,397.14	3,897.88	.....
278.11	463.68	308.08	49.34	3,761.66	4,107.73	346.07	.....
411.68	1,137.96	626.65	157.59	7,935.55	8,351.19	415.64	.....
2,924.00	8,222.76	4,619.15	1,147.91	55,772.43	61,208.06	5,435.63	.....
422.68	699.17	473.84	80.04	5,280.88	5,757.28	476.40	.....
945.36	1,893.49	1,159.25	212.80	14,115.28	16,252.29	2,137.01	.....
20,928.03	59,478.02	32,820.31	8,085.12	388,567.10	413,201.44	24,634.34	.....
249.49	447.68	289.77	51.14	3,710.15	4,124.24	414.09	.....
549.22	1,136.53	694.14	132.50	8,497.03	9,606.19	1,109.16	.....
1,989.87	3,998.20	2,481.25	465.60	30,045.00	33,767.99	3,722.99	.....
1,609.14	3,305.08	2,010.69	387.94	24,385.32	26,556.41	2,171.09	.....
34,033.03	102,198.89	55,932.06	14,294.95	650,636.03	703,507.03	52,871.00	.....

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1929	To Oct. 31 1929				Operating, main-tenance and adminis-trative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
London Ry. Com.	15.00+	kw. hr.	342,239.25	1,406.5	2,774.96	12,119.54	16,252.99
London twp....	40.00	37.00	50,521.44	202.8	400.12	1,554.33	2,410.29
Lucan.....	38.00	37.00	42,059.13	167.7	330.86	1,780.86	1,982.94
Lynden.....		40.00	23,430.68	78.8	155.47	741.76	1,090.35
Markham.....	56.00	50.00	47,578.10	157.2	310.15	2,093.26	2,260.71
Merlin.....		47.00	47,766.19	145.8	287.65	1,754.02	2,220.01
Merritton.....		22.00	306,696.17	1,910.7	3,769.72	9,743.63	15,594.32
Milton.....		32.00	248,973.78	1,088.6	2,147.75	8,212.64	11,946.48
Milverton.....	35.00	33.00	136,986.88	547.9	1,080.98	4,569.10	6,533.62
Mimico.....		27.00	335,680.87	1,719.2	3,391.90	8,805.44	16,420.66
Mitchell.....		33.00	103,110.68	426.2	840.87	3,202.11	4,941.34
Moorefield.....	65.00	60.00	19,878.73	43.0	84.84	713.81	923.59
Mount Brydges.....		45.00	19,383.22	71.6	141.26	921.91	919.82
Newbury.....		52.00	13,408.16	36.2	71.42	530.29	626.37
New Hamburg..	35.00	33.00	120,450.99	468.4	924.13	3,507.50	5,755.05
New Toronto...		29.00	1,090,253.97	5,065.5	9,993.99	27,549.51	51,886.15
Niagara Falls...		19.00	1,364,412.05	9,088.0	17,930.18	34,733.17	69,299.37
Niagara-on-Lake	30.00	28.00	76,194.59	428.5	845.41	3,679.86	3,800.80
Norwich.....	36.00	34.00	71,614.12	299.0	589.91	2,512.20	3,387.98
Oil Springs.....	40.00	42.00	69,081.03	213.8	421.82	2,400.40	3,233.34
Otterville.....	45.00	43.00	20,575.14	71.9	141.86	712.22	976.61
Palmerston...	40.00	38.00	126,223.47	462.8	913.08	4,749.39	6,027.64
Paris.....		28.00	270,626.33	1,305.9	2,576.48	7,890.74	13,022.97
Parkhill.....	65.00	62.00	63,234.78	135.3	266.94	2,169.64	2,929.67
Petrolia.....		40.00	220,606.77	761.2	1,501.82	6,901.65	10,556.94
Petrolia W.W...		52.00	38,645.54	105.9	208.94	1,013.20	1,629.91
Plattsville.....	65.00	60.00	21,787.89	48.1	94.90	866.09	1,000.03
Point Edward...		40.00	79,668.04	315.5	622.47	3,715.36	3,764.39
Port Colborne...		28.00	242,084.54	1,209.6	2,386.48	9,141.96	11,800.79
Port Credit....		32.00	90,626.82	404.9	798.85	3,095.99	4,383.94
Port Dalhousie.		30.00	80,218.16	415.5	819.76	2,594.94	3,974.57
Port Dover....	43.00	42.00	77,526.15	250.0	493.24	2,847.71	3,673.64
Port Rowan.....		90.00	38,524.65	56.3	111.08	1,043.81	1,780.03
Port Stanley...	43.00	42.00	90,517.03	306.1	603.92	2,810.53	4,251.85
Preston.....		27.00	669,090.77	3,346.2	6,601.89	19,561.17	32,666.02
Princeton.....	65.00	55.00	22,513.39	58.6	115.61	966.87	1,015.33
Queenston.....		29.00	17,391.48	87.3	172.24	615.00	857.11
Richmond Hill.	42.00	38.00	52,879.39	208.6	411.56	2,192.13	2,557.56
Ridgetown.....		38.00	106,703.38	394.2	777.74	3,605.96	5,034.03
Riverside.....	34.00	33.00	291,085.28	1,148.8	2,266.53	7,643.91	13,945.37

SYSTEM—Continued

COST OF POWER

the Power Commission Act) of Power supplied to it by the Commission; the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1929

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,726.84	6,270.16	3,579.76	743.06	44,467.31	51,434.24	6,966.93	
405.52	872.10	524.82	107.14	6,274.32	7,612.54	1,338.22	
341.90	724.90	438.60	88.60	5,688.66	6,235.35	546.69	
219.83	367.81	246.44	41.63	2,863.29	3,152.93	289.64	
346.25	696.87	449.85	83.05	6,240.14	8,012.41	1,772.27	
452.25	742.36	493.64	77.03	6,026.96	6,854.28	827.32	
1,519.37	6,240.50	3,273.39	1,009.46	41,150.39	42,036.27	885.88	
1,900.70	4,360.23	2,623.12	575.12	31,766.04	34,834.72	3,068.68	
1,111.38	2,417.00	1,437.60	289.46	17,439.14	18,276.35	837.21	
2,108.82	6,382.49	3,536.23	908.27	41,553.81	46,417.24	4,863.43	
819.68	1,815.44	1,086.80	225.16	12,931.40	14,064.76	1,133.36	
224.82	261.50	209.43	22.71	2,440.70	2,619.33	178.63	
168.22	324.02	202.87	37.83	2,715.93	3,222.34	506.41	
137.85	200.78	140.51	19.12	1,726.34	1,882.37	156.03	
1,021.40	2,078.04	1,271.89	247.46	14,805.47	15,633.23	827.76	
7,407.17	20,014.46	11,257.24	2,676.14	130,784.66	146,897.99	16,113.33	
6,128.24	28,829.47	14,571.84	4,801.28	176,293.55	172,672.19		3,621.36
466.02	1,451.23	811.37	226.38	11,281.07	12,115.06	833.99	
562.98	1,246.94	748.39	157.96	9,206.36	10,279.93	1,073.57	
657.89	1,132.24	723.61	112.95	8,682.25	8,897.66	215.41	
187.79	331.14	216.75	37.98	2,604.35	3,120.75	516.40	
1,103.95	2,127.08	1,330.27	244.50	16,495.91	17,741.30	1,245.39	
1,835.78	5,068.32	2,827.31	689.91	33,911.51	36,674.19	2,762.68	
716.50	822.12	663.20	71.48	7,639.55	8,462.88	823.33	
1,962.15	3,725.25	2,309.42	402.15	27,359.38	30,448.43	3,089.05	
392.30	606.17	405.05	55.95	4,311.52	5,508.95	1,197.43	
243.81	289.45	227.83	25.41	2,747.52	2,927.58	180.06	
636.73	1,416.89	833.27	166.68	11,155.79	12,619.95	1,464.16	
1,669.38	4,614.34	2,541.07	639.04	32,793.06	33,867.36	1,074.30	
676.48	1,670.86	954.27	213.91	11,794.30	12,956.76	1,162.46	
533.27	1,506.48	854.24	219.51	10,502.77	12,463.50	1,960.73	
740.40	1,219.59	814.30	132.08	9,920.96	10,548.06	627.10	
482.77	458.65	405.23	29.74	4,311.31	5,067.00	755.69	
833.98	1,459.54	947.90	161.72	11,069.44	12,876.43	1,806.99	
4,440.31	12,868.27	7,070.32	1,767.82	84,975.80	90,531.93	5,556.13	
226.09	311.12	227.76	30.96	2,893.74	3,289.93	396.19	
123.15	326.41	185.10	46.12	2,325.13	2,530.93	205.80	
404.85	881.98	558.61	110.21	7,116.90	8,091.70	974.80	
906.24	1,810.63	1,112.45	208.26	13,455.31	14,978.08	1,522.77	
2,325.10	5,129.31	3,045.73	606.92	34,962.87	38,102.74	3,139.87	

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1929	To Oct. 31 1929				Operating, maintenance and administrative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Rockwood.....	50.00	45.00	21,958.59	72.5	143.04	854.98	1,033.55
Rodney.....	46.00	45.00	34,380.88	119.0	234.78	2,330.61	1,618.55
St. Catharines..	21.00	21.50	1,342,634.47	8,228.4	16,234.24	37,703.20	67,652.00
St. Clair Beach..	40.00	38.00	22,869.46	82.5	162.77	725.34	1,088.02
St. George.....	46.00	42.00	39,351.94	135.2	266.74	1,274.84	1,858.65
St. Jacobs.....	35.00	33.00	46,372.46	195.7	386.11	1,438.79	2,246.60
St. Marys.....	35.00	34.00	312,296.42	1,287.3	2,539.78	12,163.45	14,987.79
St. Thomas.....	28.00		1,055,244.10	5,216.5	10,291.91	30,786.14	50,871.44
Sandwich.....	31.00	30.00	822,882.02	3,400.4	6,708.83	19,590.02	39,310.55
Sarnia.....		34.00	1,596,919.54	6,174.0	12,181.02	41,133.89	75,950.31
Scarboro twp....	36.00	35.00	497,467.18	1,954.3	3,855.74	17,892.39	22,653.28
Seaforth.....		35.00	131,929.51	506.6	999.50	4,419.03	6,255.65
Simcoe.....		31.00	234,890.67	1,024.7	2,021.68	8,601.28	11,320.28
Springfield.....	48.00	46.00	34,558.26	95.9	189.22	921.18	1,619.46
Stamford twp....		21.00	211,731.87	1,405.8	2,773.58	6,108.70	10,768.74
Stouffville.....	60.00	50.00	44,528.73	121.9	240.50	1,197.00	2,097.37
Stratford.....		30.00	1,505,270.08	6,987.1	13,785.21	46,537.36	72,949.60
Strathroy.....		34.00	205,995.47	832.7	1,642.88	7,644.25	9,784.15
Sutton.....	60.00	55.00	40,119.10	122.5	241.69	2,522.85	1,904.86
Tavistock.....	36.00	34.00	116,070.84	445.9	879.74	4,210.49	5,555.19
Tecumseh.....	37.00	35.00	91,987.06	338.6	668.04	2,701.84	4,389.74
Thamesford.....	45.00	40.00	40,002.68	138.4	273.06	1,249.71	1,834.98
Thamesville.....		40.00	49,108.94	186.1	367.17	2,015.76	2,333.74
Thedford.....	75.00	70.00	28,547.39	53.9	106.34	834.85	1,316.61
Thorndale.....	65.00	62.00	22,330.14	51.4	101.41	1,090.30	1,012.69
Thorold.....		24.00	174,084.89	999.0	1,970.98	4,944.91	8,713.48
Tilbury.....		38.00	139,969.16	539.6	1,064.62	5,943.66	6,668.48
Tillsonburg.....	34.00	33.00	180,539.67	743.8	1,467.48	5,807.56	8,570.01
Toronto.....		26.10	46,975,982.72	231,054.4	455,859.29	1,082,690.58	2,297,258.07
Toronto twp.....		33.00	220,845.85	1,050.1	2,071.80	8,321.77	10,752.30
Walkerville.....	30.00	28.00	1,799,405.55	8,232.7	16,242.72	42,509.72	86,622.94
Wallaceburg.....		35.00	696,797.81	2,758.3	5,442.00	26,294.55	33,313.59
Wardsville.....	70.00	65.00	11,869.76	26.4	52.09	470.30	550.44
Waterdown.....		32.00	44,740.68	192.8	380.38	1,154.76	2,137.28
Waterford.....	33.00	32.00	90,867.36	383.3	756.23	3,144.07	4,349.54
Waterloo.....	28.00	27.00	629,364.50	3,075.7	6,068.21	18,145.27	30,660.99
Watford.....		55.00	73,040.58	179.0	353.16	2,293.47	3,376.11
Welland.....		23.00	618,151.90	3,789.8	7,477.09	18,650.50	31,009.25
Wellesley.....		45.00	41,316.87	120.6	237.94	1,319.44	1,936.71
West Lorne.....	40.00	38.00	84,435.25	324.8	640.82	5,384.93	9,987.38

SYSTEM—Continued

COST OF POWER

the Power Commission Act) of Power supplied to it by the Commission; the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1929

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
208.16	344.42	231.56	38.30	2,854.01	3,334.60	480.59	.....
309.86	550.21	358.43	62.87	5,465.31	5,377.26	.....	88.05
6,870.93	27,002.91	14,326.90	4,347.13	174,137.31	176,220.51	2,083.20	.....
196.46	384.67	239.41	43.59	2,840.26	3,155.28	315.02	.....
360.00	644.16	412.01	71.43	4,887.83	5,764.22	876.39	.....
367.85	844.09	490.05	103.39	5,876.88	6,519.28	642.40	.....
2,436.86	5,679.89	3,298.39	680.09	41,786.25	43,978.79	2,192.54	.....
6,902.39	20,044.12	11,022.62	2,755.92	132,674.54	146,062.78	13,388.24	.....
6,234.99	14,538.46	8,560.85	1,796.48	96,740.18	102,662.68	5,922.50	.....
13,031.94	27,915.07	16,707.73	3,261.77	190,181.73	209,917.38	19,735.65	.....
3,369.91	8,101.28	4,936.49	1,032.48	61,841.57	68,743.33	6,901.76	.....
1,114.84	2,226.17	1,390.46	267.64	16,673.29	17,730.37	1,057.08	.....
1,791.98	4,178.79	2,465.25	541.36	30,920.62	31,764.89	844.27	.....
354.27	501.79	362.26	50.66	3,998.84	4,449.54	450.70	.....
956.09	4,459.52	2,259.79	742.70	28,069.12	29,521.42	1,452.30	.....
440.31	630.09	469.45	64.40	5,139.12	6,286.56	1,147.44	.....
10,661.03	28,263.27	15,867.61	3,691.34	191,755.42	209,614.00	17,858.58	.....
1,659.59	3,456.09	2,151.08	439.92	26,777.96	28,311.21	1,533.25	.....
373.74	589.67	423.51	64.72	6,121.04	6,812.88	691.84	.....
981.40	2,023.08	1,223.96	235.57	15,109.43	15,317.04	207.61	.....
778.18	1,562.25	962.90	178.89	11,241.84	11,956.70	714.86	.....
347.63	640.51	407.93	73.12	4,826.94	5,665.22	838.28	.....
411.88	845.25	513.99	98.32	6,586.11	7,441.95	855.84	.....
332.83	367.97	299.65	28.48	3,286.73	3,819.77	533.04	.....
241.41	295.15	230.33	27.16	2,998.45	3,212.62	214.17	.....
1,000.25	3,463.96	1,855.98	527.78	22,477.34	23,977.14	1,499.80	.....
1,158.17	2,434.84	1,464.99	285.07	19,019.83	20,504.85	1,485.02	.....
1,438.41	3,037.01	1,888.33	392.96	22,601.76	24,686.88	2,085.12	.....
274,482.86	856,566.66	496,630.32	122,067.84	5,585,555.62	6,030,519.38	444,963.76	.....
1,542.62	4,169.42	2,326.16	554.78	29,738.85	34,654.09	4,915.24	.....
12,358.80	32,923.09	18,805.47	4,349.40	213,812.14	232,804.03	18,991.89	.....
5,638.68	12,083.27	7,290.94	1,457.25	91,520.28	96,541.30	5,021.02	.....
131.58	161.08	124.27	13.95	1,503.71	1,742.30	238.59	.....
349.65	800.48	470.84	101.86	5,395.25	6,169.89	774.64	.....
709.75	1,636.82	949.83	202.50	11,748.74	12,331.37	582.63	.....
4,274.02	11,992.72	6,643.82	1,624.92	79,409.95	83,554.00	4,144.05	.....
769.88	1,049.83	759.62	94.57	8,696.64	9,842.68	1,146.04	.....
3,271.63	12,556.48	6,580.30	2,002.20	81,547.45	87,164.23	5,616.78	.....
417.51	615.57	435.96	63.71	5,026.84	5,427.72	400.88	.....
704.69	1,431.23	879.31	171.59	13,199.95	12,458.24	.....	741.71

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1929	To Oct. 31 1929				Operating, maintenance and administrative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Weston.....		28.00	525,268.38	2,604.4	5,138.36	13,064.43	25,563.45
Wheatley.....	48.00	45.00	43,372.79	121.6	239.91	1,572.95	1,918.17
Windsor.....		28.00	5,529,547.79	25,336.1	49,986.91	128,072.59	266,374.63
Woodbridge....	37.00	36.00	54,547.02	225.5	444.90	1,890.27	2,603.37
Woodstock.....		27.00	946,526.69	4,919.9	9,706.73	28,021.91	45,948.06
Wyoming.....		54.00	22,028.14	51.8	102.20	727.14	1,018.18
York East twp.....		35.00	714,328.14	3,464.9	6,836.08	38,265.49	35,121.23
York North twp.	34.00	32.00	275,230.53	1,146.3	2,261.59	9,080.32	12,502.90
Zurich.....	65.00	62.00	39,827.44	86.8	171.25	1,350.58	1,840.29
Sandwich, Windsor and Amherstburg Railway.....			828,038.74	3,708.0	7,315.71	19,849.56	40,057.60
Toronto Transportation Comm.			555,721.78	2,233.4	4,406.39	26,337.73	26,519.79
RURAL POWER DISTRICT							
Acton R.P.D.—Esquesing twp.			494.24	2.0	3.94	16.01	24.04
Alvinston R.P.D.—Brooke twp.....			325.88	0.4	0.79	8.88	15.05
Amherstburg R.P.D.—Anderdon, Malden, Colchester N., and Colchester S. twps..			121,125.61	438.4	864.94	3,961.48	5,739.21
Aylmer R.P.D.—Dorchester S., Malahide, Yarmouth, Bayham, Dorchester N. twps.			43,288.98	155.0	305.81	1,697.04	2,056.43
Ayr R.P.D.—Dumfries N., Dumfries S., Blenheim twps.			3,217.55	13.0	25.65	124.40	154.19
Baden R.P.D.—Wilmot, Zorra E., Easthope S., Easthope N., Wellesley, Waterloo, and Blenheim twps.....			39,434.27	160.1	315.87	1,189.02	1,903.81
Beamsville R.P.D.—Grimsby N., Grimsby S., Caistor, Gainsboro, Clinton and Louth twps.....			123,010.07	568.1	1,120.84	4,074.31	6,021.79
Belle River R.P.D.—Maidstone and Rochester twps..			53,641.02	208.9	412.15	2,001.26	2,549.07
Blenheim R.P.D.—Raleigh and Harwich twps.....			30,297.98	108.8	214.66	807.60	1,446.53
Bond Lake R.P.D.—King, Vaughan, Markham and Whitchurch twps.....			97,603.79	405.3	799.64	4,443.26	4,728.05
Bothwell R.P.D.—Ekfrid, Zone, Oxford, Aldborough and Masa twps.....			35,924.62	116.6	230.05	1,278.32	1,704.08
Brampton R.P.D.—Chingua-cousy and Toronto twps....			15,194.26	68.5	135.15	747.78	737.61

SYSTEM—Continued

COST OF POWER

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costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Charged	Credited
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,448.94	9,784.07	5,535.54	1,375.92	63,910.71	72,922.91	9,012.20	.....
394.30	617.00	426.43	64.24	5,233.00	5,531.59	298.59	.....
37,919.59	101,243.73	57,793.38	13,385.26	654,776.09	710,073.51	55,297.42	.....
434.35	956.99	574.56	119.13	7,023.57	8,150.80	1,127.23	.....
5,799.54	18,194.04	9,882.63	2,599.22	120,152.13	132,837.49	12,685.36	.....
238.01	309.88	230.51	27.37	2,653.29	2,796.43	143.14	.....
4,255.08	12,933.15	7,545.01	1,830.53	106,786.57	121,272.91	14,486.34	.....
1,725.71	4,539.44	2,702.69	605.60	33,418.25	37,080.12	3,661.87	.....
448.56	519.42	417.68	45.86	4,793.64	5,430.60	636.96	.....
5,821.45	15,011.87	8,649.01	1,958.97	98,664.17	98,664.17	.....	.....
4,270.26	9,293.55	5,864.43	1,179.92	77,872.07	84,288.32	6,416.25	.....
4.09	8.68	5.23	1.06	63.05	63.05	see page	163
4.19	3.73	3.44	0.21	36.29	36.29	"	"
1,033.48	2,049.08	1,264.93	231.61	15,144.73	15,144.73	"	"
383.97	717.69	453.09	81.88	5,695.91	5,695.91	"	"
26.12	55.77	33.66	6.87	426.66	426.66	"	"
323.05	701.42	416.43	84.58	4,934.18	4,934.18	"	"
927.37	2,201.69	1,307.15	300.13	15,953.28	15,953.28	"	"
430.15	930.13	559.01	110.36	6,992.13	6,992.13	"	"
264.62	511.38	317.20	57.48	3,619.47	3,619.47	"	"
709.51	1,668.37	1,031.23	214.12	13,594.18	13,594.18	"	"
335.12	576.56	376.11	61.60	4,561.84	4,561.84	"	"
111.29	274.00	159.22	36.19	2,201.24	2,201.24	"	"

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Rural Power District	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating maintenance and administrative expenses	Interest
	\$ c.		\$ c.	\$ c.	\$ c.
Brant R.P.D. —Brantford, Burford, Blenheim, Dumfries S., Onondaga, and Oakland twps.	59,916.47	274.6	541.77	2,875.15	2,896.80
Brigden R.P.D. —Moore and Sombra twps.	11,728.14	23.8	46.96	517.59	545.61
Burford R.P.D. —Burford, Brantford and Oakland twps.	19,920.95	72.3	142.64	724.56	952.89
Caledonia R.P.D. —Ancaster, Seneca, Glanford, Oneida, Binbrook, Caistor and Barton twps.	27,287.68	118.5	233.79	1,030.49	1,232.38
Chatham R.P.D. —Dover E., Chatham, Raleigh and Harwich twps.	71,779.93	320.2	631.74	2,476.00	3,460.89
Chippawa R.P.D. —Willoughby and Bertie twps.	16,742.93	94.3	186.05	651.72	826.49
Clinton R.P.D. —Goderich, Stanley, Tuckersmith and Hay twps.	17,793.10	50.6	99.83	466.07	846.44
Delaware R.P.D. —Delaware, Westminster, Caradoc, Ekfrid, Lobo and London twps.	41,904.66	174.2	343.69	1,812.48	2,004.57
Dorchester R.P.D. —London, Nissouri W., Nissouri E., Oxford N., Dorchester N., Dorchester S., Westminster, and Yarmouth twps.	63,769.01	251.6	496.39	2,692.72	2,947.92
Dresden R.P.D. —Camden and Chatham Gore twps.	1,165.06	3.8	7.51	87.83	55.69
Drumbo R.P.D. —Blenheim, Burford and Blandford twps.	23,610.08	65.9	130.02	945.62	1,102.64
Dundas R.P.D. —Flamboro W., Beverly, Ancaster, Flamboro E. and Nelson twps.	68,952.17	351.4	693.29	1,619.16	3,380.58
Dunnville R.P.D. —Moulton twp.	660.43	3.3	6.51	33.78	32.50
Dutton R.P.D. —Dunwich and Aldboro twps.	9,977.25	38.8	76.55	688.69	477.33
Elmira R.P.D. —Woolwich twp.	5,658.01	22.3	44.00	156.92	269.51
Elora R.P.D. —Pilkington, Nichol, Garafraxa W. and Peel twps.	10,206.77	40.1	79.12	393.68	489.43
Essex R.P.D. —Sandwich S., Maidstone, Rochester, Colchester N., Gosfield N., and Gosfield S. twps.	37,328.77	146.6	289.23	1,186.04	1,786.47

SYSTEM—Continued

COST OF POWER

the Power Commission Act) of Power supplied to it by the Commission; the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1929

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
431.06	1,112.56	626.12	145.08	8,628.54	8,628.54	see page	163
133.83	159.84	123.07	12.57	1,539.47	1,539.47	"	"
175.89	335.40	208.65	38.20	2,578.23	2,578.23	"	"
181.18	467.45	265.73	62.60	3,473.62	3,473.62	"	"
517.24	1,315.75	749.97	169.16	9,320.75	9,320.75	"	"
101.77	336.04	178.01	49.82	2,329.90	2,329.90	"	"
180.60	281.57	187.50	26.73	2,088.74	2,088.74	"	"
330.46	739.78	438.25	92.03	5,761.26	5,761.26	"	"
498.41	1,077.75	647.82	132.92	8,493.93	8,493.93	see page	165
10.85	18.71	12.23	2.01	194.83	194.83	"	"
240.47	342.30	246.45	34.81	3,042.31	3,042.31	"	"
449.40	1,332.45	726.28	185.65	8,386.81	8,386.81	"	"
4.55	12.56	6.93	1.74	98.57	98.57	"	"
82.66	170.57	103.97	20.49	1,620.26	1,620.26	"	"
46.13	98.74	58.79	11.78	685.87	685.87	"	"
86.84	175.12	108.21	21.18	1,353.58	1,353.58	"	"
299.55	652.39	390.65	77.45	4,681.78	4,681.78	"	"

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Rural Power District	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating main-tenance and administrative expenses	Interest
	\$ c.		\$ c.	\$ c.	\$ c.
Exeter R.P.D.—Hay, Stephen, Usborne, Tuckersmith, Bid-dulph and Bosanquet twps..	53,838.10	170.3	336.01	2,404.56	2,541.06
Forest R.P.D.—Plympton, Warwick, Bosanquet, Wil-liams W. and Adelaide twps.	1,940.09	4.6	9.07	110.19	90.72
Galt R.P.D.—Dumfries N. and Dumfries S. twps.	23,660.25	111.9	220.77	1,433.16	1,158.51
Georgetown R.P.D.—Esques-ing and Chinguacousy twps.	11,806.32	43.0	84.84	384.23	567.56
Goderich R.P.D.—Colborne and Goderich twps.	13,587.48	40.3	79.51	370.08	642.70
Grantham R.P.D.—Gran-tham and Niagara twps.	70,203.35	395.6	780.50	2,108.20	3,499.89
Guelph R.P.D.—Eramosa, Nassagaweya, Guelph and Puslinch twps.	18,447.07	84.3	166.32	912.76	901.71
Haldimand R.P.D.—Wal-pole, Rainham, Cayuga N. and Oneida twps.	9,855.57	29.7	58.59	255.11	467.63
Harrow R.P.D.—Colchester S. and Malden twps.	55,514.20	210.7	415.71	2,021.73	2,661.53
Ingersoll R.P.D.—Dorchester N., Dereham, Oxford N., Nis-souri E., Zorra W. and Oxford W. twps.	51,118.18	206.2	406.83	1,950.96	2,437.31
Jordan R.P.D. — Louth, Thorold, Pelham and Gran-tham twp.	15,365.04	85.0	167.70	431.06	762.57
Keswick R.P.D. — Georgina and Gwillimbury N. twps. .	52,390.21	195.4	385.51	3,076.06	2,518.19
Kingsville R.P.D.—Gosfield N., Gosfield S., Mersea and Romney twps.	106,374.92	371.9	733.74	3,725.33	4,873.61
Listowel R.P.D.—Wallace and Elma twps.	14,731.07	56.7	111.87	476.13	710.01
London R.P.D.—Westminster, Delaware and London twps.	236,727.15	1,043.5	2,058.77	8,437.57	11,362.71
Lucan R.P.D.—Stephen, Lon-don, McGillivray and Bid-dulph twps.	11,636.39	46.4	91.55	669.99	556.41
Lynden R.P.D.—Beverly, An-caster, Brantford and Dum-fries S. twps.	32,236.49	112.7	222.35	879.68	1,534.38

SYSTEM—Continued

COST OF POWER

the Power Commission Act) of Power supplied to it by the Commission; the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1929

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
515.51	822.44	563.55	89.97	7,273.10	7,273.10	see page	165
20.96	27.26	20.34	2.43	280.97	280.97	"	"
167.77	446.44	249.97	59.12	3,735.74	3,735.74	"	"
105.55	195.68	124.77	22.71	1,485.34	1,485.34	"	"
135.08	203.69	143.18	21.29	1,595.53	1,595.53	"	"
415.12	1,383.02	748.32	209.00	9,144.05	9,144.05	"	"
136.10	337.32	194.88	44.54	2,693.63	2,693.63	"	"
98.54	150.83	103.89	15.69	1,150.28	1,150.28	"	"
458.68	940.37	581.24	111.32	7,190.58	7,190.58	"	"
405.26	888.24	528.27	108.94	6,725.81	6,725.81	"	"
93.39	302.28	163.75	44.90	1,965.65	1,965.65	"	"
422.07	846.30	553.34	103.23	7,904.70	7,904.70	see page	167
887.50	1,750.35	1,080.62	196.48	13,247.63	13,247.63	"	"
124.26	255.22	155.25	29.96	1,862.70	1,862.70	"	"
1,750.63	4,310.52	2,464.60	551.29	30,936.09	30,936.09	"	"
94.58	200.47	121.34	24.51	1,758.85	1,758.85	"	"
295.35	514.94	339.09	59.53	3,845.32	3,845.32	"	"

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Rural Power District	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating main-tenance and administrative expenses	Interest
	\$ c.		\$ c.	\$ c.	\$ c.
Markham R.P.D.—Markham, Scarboro, Pickering and Whitchurch twps.	56,435.86	208.0	410.37	1,360.07	2,712.94
Merlin R.P.D.—Romney, Tilbury E. and Raleigh twps. ...	23,376.61	68.5	135.14	819.26	1,045.58
Milton R.P.D.—Nassagaweya, Esqueating, Trafalgar and Nelson twps.	21,909.77	93.3	184.08	912.14	1,065.09
Milverton R.P.D.—Mornington twp.	7,400.64	29.6	58.40	225.41	356.87
Mitchell R.P.D.—Fullarton, Downie, Ellice, Logan and Elma twps.	30,347.79	103.6	204.39	993.77	1,451.07
Newmarket R.P.D.—Gwillimbury E., King, Whitchurch and Scott twps.	48,853.29	192.3	379.39	1,257.16	2,364.85
Niagara R.P.D.—Niagara twp.	88,174.24	515.5	1,017.06	3,216.45	4,437.92
Norwich R.P.D.—Norwich N., Norwich S., Dereham, Oxford E., Burford and Windham twps.	45,219.89	188.8	372.49	1,947.53	2,145.58
Oil Springs R.P.D.—Enniskillen, Dawn and Brooke twps.	11,315.35	34.0	67.08	452.28	533.10
Palmerston R.P.D.—Maryborough, Wallace and Minto twps.	1,145.48	4.2	8.29	44.52	55.25
Petrolia R.P.D.—Plympton and Enniskillen twps.	1,565.01	5.4	10.65	87.72	73.41
Preston R.P.D.—Waterloo, Puslinch, Dumfries N. and Woolwich twps.	122,622.86	569.8	1,124.19	3,873.05	5,973.30
Ridgetown R.P.D.—Howard, Orford, Harwich, Aldborough and Rondeau Park twps.	69,601.22	204.2	402.88	2,513.78	3,278.80
St. Jacobs R.P.D.—Wellesley and Woolwich twps.	36,704.59	154.9	305.61	1,043.96	1,774.03
St. Marys R.P.D.—Fullarton, Usborne, Blanshard and Downie twps.	42,880.45	140.4	277.00	1,299.48	2,456.19
St. Thomas R.P.D.—Southwold, Yarmouth, Westminster and Dunwich twps.	92,756.14	405.8	800.62	3,893.85	4,453.62
Saltfleet R.P.D.—Saltfleet, Barton, Binbrook and Grimsby N. twps.	126,432.11	475.2	937.54	2,881.17	5,225.86

SYSTEM—Continued

COST OF POWER

the Power Commission Act) of Power supplied to it by the Commission; the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1929

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
458.12	922.03	595.22	109.89	6,568.64	6,568.64	see page	167
209.67	346.91	230.13	36.18	2,822.87	2,822.87	"	"
171.47	382.27	230.82	49.29	2,995.16	2,995.16	"	"
60.04	130.58	77.67	15.64	924.61	924.61	"	"
278.51	526.80	319.81	54.73	3,829.08	3,829.08	"	"
374.68	832.04	515.99	101.59	5,825.70	5,825.70	"	"
511.80	1,756.41	941.82	272.34	12,153.80	12,153.80	"	"
355.49	787.35	472.56	99.74	6,180.74	6,180.74	"	"
109.57	185.00	118.55	17.96	1,483.54	1,483.54	"	"
10.03	19.29	12.08	2.22	151.68	151.68	"	"
13.92	26.43	16.38	2.85	231.36	231.36	"	"
884.86	2,319.95	1,294.36	301.03	15,770.74	15,770.74	"	"
688.67	1,064.47	730.16	107.88	8,786.64	8,786.64	"	"
291.16	668.10	387.89	81.83	4,552.58	4,552.58	"	"
533.10	886.81	545.17	*74.18	6,071.93	6,071.93	"	"
693.32	1,707.35	967.24	214.39	12,730.39	12,730.39	"	"
837.16	1,961.81	1,143.21	251.05	13,237.80	13,237.80	see page	169

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Rural Power District	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating maintenance and administrative expenses	Interest
	\$ c.		\$ c.	\$ c.	\$ c.
Sandwich R.P.D.—Sandwich W., Sandwich E., Sandwich S., Maidstone, Anderdon and Colchester N. twps.	219,260.80	929.9	1,834.65	6,656.14	10,497.75
Sarnia R.P.D.—Sarnia, Moore and Plympton twps.	103,959.92	377.8	745.38	4,506.47	4,946.82
Scarboro R.P.D.—Scarboro, Pickering and York N. twps.	41,456.76	158.7	313.11	1,481.25	1,914.06
Seaforth R.P.D.—Tucker-smith and McKillop twps.	12,931.54	47.3	93.32	456.30	623.59
Simcoe R.P.D.—Woodhouse, Charlotteville, Windham and Townsend twps.	25,146.25	110.7	218.41	1,194.69	1,217.32
Stamford R.P.D.—Stamford and Thorold twps.	22,293.58	145.6	287.26	1,272.92	1,133.70
Stratford R.P.D.—Ellice, Downie and Easthope N. twps.	34,568.98	159.3	314.29	1,072.72	1,679.43
Strathroy R.P.D.—Adelaide, Metcalfe and Caradoc twps.	7,256.83	29.5	58.20	624.25	348.77
Streetsville R.P.D.—Toronto, Trafalgar, Esquesing and Chinguacousy twps.	39,407.45	176.8	348.81	1,494.99	1,921.71
Tavistock R.P.D.—Easthope N., Easthope S. and Zorra E. twps.	22,324.72	86.4	170.46	740.28	1,073.90
Thamesville R.P.D.—Camden, Euphemia, Zone, Orford, Howard, Chatham and Harwich twps.	15,629.58	59.1	116.60	590.08	750.33
Tilbury R.P.D.—Dover W., Tilbury E., Tilbury W. and Tilbury N. twps.	27,611.36	92.9	183.29	1,035.42	1,314.31
Tillsonburg R.P.D.—Norwich S., Bayham, Dorchester S., Malahide, Dereham, Middleton and Norwich N. twps.	57,709.87	211.6	417.48	2,367.21	2,723.28
Wallaceburg R.P.D.—Dover E., Chatham and Sombra twps.	41,466.07	163.3	322.18	1,754.63	1,976.45
Walsingham R.P.D.—Walsingham S. and Charlotteville twps.	24,470.37	40.3	79.51	641.36	1,133.29

SYSTEM—Continued

COST OF POWER

the Power Commission Act) of Power supplied to it by the Commission; the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1929

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,625.09	3,940.44	2,284.96	491.28	27,330.31	27,330.31	see page	169
889.69	1,787.76	1,087.13	199.60	14,162.85	14,162.85	"	"
295.47	675.82	416.18	83.84	5,179.73	5,179.73	"	"
113.29	217.05	136.28	24.99	1,664.82	1,664.82	"	"
190.17	451.94	263.92	58.48	3,594.93	3,594.93	"	"
104.69	467.54	238.03	76.92	3,581.06	3,581.06	"	"
246.82	648.15	364.40	84.16	4,409.97	4,409.97	"	"
58.20	122.40	75.79	15.58	1,303.19	1,303.19	"	"
292.23	718.91	414.48	93.40	5,284.53	5,284.53	"	"
187.66	390.17	235.38	45.65	2,843.50	2,843.50	"	"
131.23	268.71	163.53	31.22	2,051.70	2,051.70	"	"
251.23	444.88	289.00	49.08	3,567.21	3,567.21	"	"
504.41	959.15	604.04	111.79	7,687.36	7,687.36	"	"
337.03	720.71	433.90	86.27	5,631.17	5,631.17	"	"
298.96	300.72	257.35	21.29	2,732.48	2,732.48	"	"

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating, maintenance and administrative expenses	Interest
	\$ c.		\$ c.	\$ c.	\$ c.
Walton R.P.D. —Wawanosh W., Wawanosh E., Morris, Gray, Hullett and McKillop twps.	21,520.96	53.2	104.96	672.26	999.31
Waterdown R.P.D. —Flamboro E., Flamboro W. and Nelson twp.	76,215.59	331.8	654.62	2,115.75	3,700.93
Waterford R.P.D. —Windham and Townsend twps.	19,384.61	79.4	156.66	663.71	930.17
Welland R.P.D. —Bertie, Pelham, Thorold, Crowland, Wainfleet and Humberstone twps.	187,393.59	985.8	1,944.93	8,379.22	9,269.65
Woodbridge R.P.D. —Toronto, Vaughan, Etobicoke, Toronto Gore, Albion, King, Chinguacousy and North York twps.	102,259.24	384.6	758.80	2,921.65	4,898.66
Woodstock R.P.D. —Oxford W., Oxford N., Oxford E., Blenheim, Blandford, Zorra W. and Zorra E. twps.	81,316.60	377.0	743.80	3,264.55	3,913.90
Totals—Municipalities. . .	109,883,171.13	532,189.5	1,049,984.46	2,849,633.81	5,347,166.23
Totals—Rural power districts.	3,842,874.93	15,900.1	31,370.12	139,082.11	184,045.29
Totals—Companies.	47,512,188.84	281,751.6	557,162.26	1,355,667.73	2,407,973.55
	161,238,234.90				
Non-operating capital. . .	2,820,809.48				
Grand totals.	164,059,044.38	829,841.2	1,638,516.84	4,344,383.65	7,939,185.07

SYSTEM—Continued

COST OF POWER

the Power Commission Act) of Power supplied to it by the Commission; the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1929

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
227.07	301.05	223.24	28.11	2,556.00	2,556.00	see page	169
590.65	1,359.40	802.54	175.28	9,399.17	9,399.17	"	"
155.50	344.43	202.72	41.94	2,495.13	2,495.13	"	"
1,235.61	3,552.30	1,990.74	520.81	26,893.26	26,893.26	see page	171
879.21	1,704.07	1,077.11	203.19	12,442.69	12,442.69	"	"
576.20	1,525.96	849.80	199.17	11,073.38	11,073.38	"	"
704,104.56	2,025,324.98	1,156,801.11	281,159.95	13,414,175.10	14,483,324.78	1,074,655.61	5,505.93
30,122.18	67,328.01	40,151.31	8,400.06	500,499.08	500,499.08		
255,944.12	956,417.27	504,900.58	(289,560.01)	5,748,505.50	5,748,505.50	.....	.....
990,170.86	3,049,070.26	1,701,853.00	.....	19,663,179.68	20,732,329.36	.....	.....

NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power the amounts remaining to be credited to certain districts or charged to the adjustment) of the actual costs in the

Rural power districts and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
Acton R.P.D.—Esquesing twp.	2,871.95	1,435.97	1,435.98	63.05
Alvinston R.P.D.—Brooke twp.	2,966.87	1,483.43	1,483.44	36.29
Amherstburg R.P.D.—Anderdon, Malden, Colchester N. and Colchester S. twps.	*97,828.88	48,828.94	48,999.94	15,144.73
Aylmer R.P.D.—Dorchester S., Malahide, Yarmouth, Bayham and Dorchester N. twps.	*133,683.47	65,761.03	67,922.44	5,695.91
Ayr R.P.D.—Dumfries N., Dumfries S. and Blenheim twps.	17,178.48	8,589.24	8,589.24	426.66
Baden R.P.D.—Wilmot, Zorra E., Easthope S., Easthope N., Wellesley, Waterloo and Blenheim twps.	*91,903.92	45,748.48	46,155.44	4,934.18
Beamsville R.P.D.—Grimsby N., Grimsby S., Caister, Gainsboro, Clinton and Louth twps.	*225,926.60	112,709.42	113,217.18	15,953.28
Belle River R.P.D.—Maidstone and Rochester twps.	71,896.38	35,948.19	35,948.19	6,992.13
Blenheim R.P.D.—Raleigh and Harwich twps.	*77,795.98	37,429.57	40,366.41	3,619.47
Bond Lake R.P.D.—King, Vaughan, Markham and Whitchurch twps. ...	*177,610.86	88,019.67	89,591.19	13,594.18
Bothwell R.P.D.—Ekfrid, Zone, Orford, Aldborough and Mara twps. ...	*44,076.75	21,851.61	22,225.14	4,561.84
Brampton R.P.D.—Chinguacousy and Toronto twps.	65,157.28	32,578.64	32,578.64	2,201.24
Brant R.P.D.—Brantford, Burford, Blenheim, Dumfries S., Onondaga and Oakland twps.	*139,397.07	68,749.45	70,647.62	8,628.54
Brigden R.P.D.—Moore and Sombra twps.	33,434.04	16,717.02	16,717.02	1,539.47
Burford R.P.D.—Burford, Brantford and Oakland twps.	34,450.14	17,225.07	17,225.07	2,578.23
Caledonia R.P.D.—Ancaster, Seneca, Glanford, Oneida, Binbrook, Caister and Barton twps.	86,727.30	43,363.65	43,363.65	3,473.62
Chatham R.P.D.—Dover E., Chatham, Raleigh and Harwich twps. ...	182,813.20	91,406.60	91,406.60	9,320.75
Chippawa R.P.D.—Willoughby and Bertie twps.	37,623.26	18,811.63	18,811.63	2,329.90
Clinton R.P.D.—Goderich, Stanley, Tuckersmith and Hay twps.	*79,193.93	38,878.62	40,315.31	2,088.74
Delaware R.P.D.—Delaware, Westminster, Caradoc, Ekfrid, Lobo and London twps.	*152,938.63	75,397.89	77,540.74	5,761.26

Note.—Items marked * include portions of transmission lines used for purposes of rural

RURAL POWER DISTRICTS

RURAL OPERATING

District, the revenues collected from (or charged to) customers within each district, and Municipalities comprising certain other districts upon ascertainment (by annual year ending October 31, 1929)

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c. 26.69 13.80	\$ c. 64.80 27.69	\$ c. 57.44 24.54	\$ c. 28.72 12.27	\$ c. 15.12 6.46	\$ c. 255.82 121.05	\$ c. 363.11 114.10	\$ c. 107.29	\$ c. 6.95
6,466.94	2,061.28	1,824.01	912.01	480.97	26,889.94	30,549.02	3,659.08	.....
6,321.18	2,772.82	2,423.98	1,212.00	647.00	19,072.89	23,002.69	3,929.80	.....
399.76	324.57	287.69	143.84	75.73	1,658.25	2,526.29	868.04	.....
4,983.84	2,030.77	1,791.86	895.93	473.86	15,110.44	16,510.62	1,400.18	.....
6,757.63	4,700.43	4,157.53	2,078.77	1,096.79	34,744.43	43,993.79	9,249.36	.....
3,502.88	1,405.40	1,245.70	622.85	327.93	14,096.89	20,781.77	6,684.88	.....
2,830.39	1,676.03	1,426.96	713.49	391.08	10,657.42	15,508.04	4,850.62	.....
12,292.31	3,423.64	3,003.16	1,501.58	798.87	34,613.74	41,281.47	6,667.73	.....
2,776.95	814.46	714.43	357.21	190.04	9,414.93	10,544.60	1,129.67	.....
1,885.84	1,391.47	1,233.35	616.68	324.68	7,653.26	9,459.60	1,806.34	.....
3,814.34	2,623.10	2,287.07	1,143.53	612.07	19,108.65	20,311.89	1,203.24	.....
920.41	737.17	653.40	326.70	172.01	4,349.16	4,826.98	477.82	.....
1,173.73	751.58	666.18	333.09	175.37	5,678.18	7,275.56	1,597.38	.....
2,013.25	1,792.72	1,589.00	794.50	418.32	10,081.41	11,771.41	1,690.00	.....
9,166.00	3,661.26	3,222.27	1,611.14	848.27	27,829.69	31,254.96	3,425.27	.....
1,117.75	832.54	737.93	368.96	194.26	5,581.34	7,004.52	1,423.18	.....
2,341.35	1,205.23	1,053.42	526.71	281.23	7,496.68	7,528.26	31.58	.....
6,553.88	3,298.70	2,881.00	1,440.50	769.71	20,705.05	23,456.62	2,751.57	.....

power districts.

NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power the amounts remaining to be credited to certain districts or charged to the adjustment) of the actual costs in the

Rural power districts and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
Dorchester R.P.D. —London, Nissouri W., Nissouri E., Oxford N., Dorchester N., Dorchester S., Westminster and Yarmouth twps.	*166,211.60	82,331.07	83,880.53	8,493.93
Dresden R.P.D. —Camden and Chatham Gore twps.	5,050.23	2,525.11	2,525.12	194.83
Drumbo R.P.D. —Blenheim, Burford and Blandford twps.	*44,273.58	21,670.80	22,602.78	3,042.31
Dundas R.P.D. —Flamboro W., Beverly, Ancaster, Flamboro E. and Nelson twps.	*144,002.86	71,855.61	72,147.25	8,386.81
Dunnville R.P.D. —Moulton twp.	3,277.65	1,638.83	1,638.82	98.57
Dutton R.P.D. —Dunwich and Aidboro twps.	40,016.37	20,008.18	20,008.19	1,620.26
Elmira R.P.D. —Woolwich twp.	7,841.43	3,920.71	3,920.72	685.87
Elora R.P.D. —Pikington, Nichol, Garafraxa W. and Peel twps.	23,878.81	11,939.40	11,939.41	1,353.58
Essex R.P.D. —Sandwich S., Maidstone, Rochester, Colchester N., Gosfield N. and Gosfield S. twps.	*96,819.82	47,599.63	49,220.19	4,681.78
Exeter R.P.D. —Hay, Stephen, Usborne, Tuckersmith, Biddulph and Bosanquet twps.	*99,067.80	49,027.36	50,040.44	7,273.10
Forest R.P.D. —Plympton, Warwick, Bosanquet, Williams W. and Adelaide twps.	*9,246.70	4,529.97	4,716.73	280.97
Galt R.P.D. —Dumfries N. and Dumfries S. twps.	48,594.98	24,297.49	24,297.49	3,735.74
Georgetown R.P.D. —Esquesing and Chinguacousy twps.	56,410.27	28,205.13	28,205.14	1,485.34
Goderich R.P.D. —Colborne and Goderich twps.	7,326.18	3,663.09	3,663.09	1,595.53
Grantham R.P.D. —Grantham and Niagara twps.	88,906.58	44,453.29	44,453.29	9,144.05
Guelph R.P.D. —Eramosa, Nassagaweya, Guelph and Puslinch twps.	95,467.45	47,733.72	47,733.73	2,693.63
Haldimand R.P.D. —Walpole, Rainham, Cayuga N. and Oneida twps.	*21,451.91	10,533.92	10,917.99	1,150.28
Harrow R.P.D. —Colchester S. and Malden twps.	87,977.23	43,988.62	43,988.61	7,190.58
Ingersoll R.P.D. —Dorchester N., Dereham, Oxford N., Nissouri E., Zorra W. and Oxford W. twps.	167,743.32	83,871.66	83,871.66	6,725.81
Jordan R.P.D. —Louth, Thorold, Pelham and Grantham twps.	70,516.95	35,258.48	35,258.47	1,965.65

Note.—Items marked * include portions of transmission lines used for purposes of rural

RURAL POWER DISTRICTS

RURAL OPERATING

District, the revenues collected from (or charged to) customers within each district, and Municipalities comprising certain other districts upon ascertainment (by annual year ending October 31, 1929)

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
8,349.34	3,723.36	3,269.27	1,634.64	868.80	26,339.34	26,572.70	233.36	.....
90.01	52.68	46.69	23.35	12.29	419.85	666.96	247.11	.....
1,625.99	951.23	824.50	412.25	221.95	7,078.23	7,529.98	451.75	.....
3,688.23	3,170.01	2,804.61	1,402.30	739.68	20,191.64	26,368.58	6,176.94	.....
16.17	73.30	64.97	32.49	17.10	302.60	430.43	127.83	.....
461.05	514.00	455.59	227.79	119.94	3,398.63	4,497.35	1,098.72	.....
995.41	161.77	143.38	71.69	37.75	2,095.87	1,695.23	.....	400.64
1,221.23	512.69	454.43	227.21	119.63	3,888.77	4,993.77	1,105.00	.....
4,050.10	2,009.50	1,748.73	874.36	468.89	13,843.36	17,729.46	3,886.10	.....
3,504.77	2,006.23	1,757.99	878.99	468.13	15,889.21	20,393.25	4,504.04	.....
170.55	164.04	141.67	70.83	38.28	866.34	1,285.98	419.64	.....
2,561.60	964.87	855.23	427.62	225.14	8,770.20	9,574.70	804.50	.....
1,412.73	952.88	844.60	422.30	222.34	5,340.19	7,376.51	2,036.32	.....
574.83	145.53	128.99	64.50	33.96	2,543.34	2,726.01	182.67	.....
3,620.66	1,884.04	1,669.95	834.97	439.62	17,593.29	18,609.97	1,016.68	.....
4,190.02	1,673.47	1,483.31	741.66	390.48	11,172.57	9,794.72	.....	1,377.85
1,223.27	479.05	416.94	208.47	111.78	3,589.79	4,583.33	993.54	.....
4,658.90	1,774.43	1,572.79	786.39	414.04	16,397.13	19,034.31	2,637.18	.....
5,014.26	3,097.00	2,745.07	1,372.54	722.64	19,677.32	23,992.30	4,314.98	.....
1,908.77	1,366.92	1,211.59	605.79	318.95	7,377.67	10,048.65	2,670.98	.....

power districts.

NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power the amounts remaining to be credited to certain districts or charged to the adjustment) of the actual costs in the

Rural power districts and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
Keswick R.P.D. —Georgina and Gwillimbury E. twps.....	*66,829.03	32,996.13	33,832.90	7,904.70
Kingsville R.P.D. —Gosfield N., Gosfield S., Mersea and Romney twps....	*195,937.22	96,884.44	99,052.78	13,247.63
Listowel R.P.D. —Wallace and Elma twps.....	41,927.40	20,963.70	20,963.70	1,862.70
London R.P.D. —Westminster, Delaware and London twps.....	*334,860.99	167,384.08	167,476.91	30,936.09
Lucan R.P.D. —Stephen, London, McGillivray and Biddulph twps.....	*47,058.69	23,407.40	23,651.29	1,758.85
Lynden R.P.D. —Beverly, Ancaster, Brantford and Dumfries S. twps....	70,283.90	35,141.95	35,141.95	3,845.32
Markham R.P.D. —Markham, Scarborough, Pickering and Whitchurch twps.	*138,184.20	68,502.76	69,681.44	6,568.64
Merlin R.P.D. —Romney, Tilbury E. and Raleigh twps.....	*53,750.11	26,594.89	27,155.22	2,822.87
Milton R.P.D. —Nassagaweya, Esqueness, Trafalgar and Nelson twps..	56,597.81	28,298.90	28,298.91	2,995.16
Milverton R.P.D. —Morningside twp..	26,649.53	13,324.77	13,324.76	924.61
Mitchell R.P.D. —Fullarton, Downie, Ellice, Logan and Elma twps.....	51,763.35	25,881.68	25,881.67	3,829.08
Newmarket R.P.D. —Gwillimbury E., King, Whitchurch and Scott twps....	*47,716.56	23,421.74	24,294.82	5,825.70
Niagara R.P.D. —Niagara twp.....	*102,202.47	50,753.63	51,448.84	12,153.80
Norwich R.P.D. —Norwich N., Norwich S., Dereham, Oxford E., Burford and Windham twps.....	*123,301.30	60,029.18	63,272.12	6,180.74
Oil Springs R.P.D. —Enniskillen, Dawn and Brooke twps.....	19,238.44	9,619.22	9,619.22	1,483.54
Palmerston R.P.D. —Maryborough, Wallace and Minto twps.....	*1,215.49	374.28	841.21	151.68
Petrolia R.P.D. —Plympton and Enniskillen twps.....	*7,972.65	3,799.55	4,173.10	231.36
Preston R.P.D. —Waterloo, Puslinch, Dumfries N. and Woolwich twps....	*224,628.99	112,127.73	112,501.26	15,770.74
Ridgetown R.P.D. —Horward, Orford, Harwich, Alderborough and Rondeau Park twps.....	161,406.70	80,703.35	80,703.35	8,786.64
St. Jacobs R.P.D. —Wellesley and Woolwich twps.....	*47,190.89	23,591.36	23,599.53	4,552.58
St. Marys R.P.D. —Fullarton, Ussborne, Blanshard and Downie twps..	112,061.74	56,030.87	56,030.87	6,071.93
St. Thomas R.P.D. —Southwold, Yarmouth, Westminster and Dunwich twps.....	*203,678.08	101,839.04	101,839.04	12,730.39

Note.—Items marked * included portions of transmission lines used for purposes of rural

RURAL POWER DISTRICTS

RURAL OPERATING

District, the revenues collected from (or charged to) customers within each district, and Municipalities comprising certain other districts upon ascertainment (by annual year ending October 31, 1929

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
11,233.29	1,402.24	1,226.18	613.09	327.19	22,706.69	19,996.96	.....	2,709.73
12,064.63	4,137.43	3,626.43	1,813.22	965.41	35,854.75	41,148.04	5,293.29	.....
2,851.76	937.02	830.54	415.27	218.64	7,115.93	8,314.66	1,198.73	.....
20,496.68	7,125.24	6,313.70	3,156.84	1,662.60	69,691.15	64,280.59	.....	5,410.56
1,053.85	1,054.20	929.54	464.77	245.99	5,507.20	5,989.47	482.27	.....
1,926.82	1,549.70	1,373.60	686.80	361.60	9,743.84	10,506.25	762.41	.....
4,949.38	2,573.49	2,257.47	1,128.74	600.49	18,078.21	21,859.72	3,781.51	.....
2,091.86	1,177.26	1,033.93	516.97	274.70	7,917.59	9,422.55	1,504.96	.....
1,789.15	1,211.15	1,073.52	536.76	282.61	7,888.35	10,094.98	2,206.63	.....
1,367.18	556.84	493.56	246.78	129.93	3,718.90	3,687.60	.....	31.30
3,983.92	1,077.40	954.97	477.48	251.40	10,574.25	10,645.69	71.44	.....
2,198.90	941.60	817.42	408.71	219.71	10,412.04	12,849.59	2,437.55	.....
4,156.84	2,276.72	2,004.10	1,002.05	531.24	22,124.75	24,189.07	2,064.32	.....
6,026.18	2,742.83	2,369.07	1,184.54	640.00	19,143.36	22,397.04	3,253.68	.....
669.77	431.84	382.77	191.38	100.76	3,260.06	4,373.51	1,113.45	.....
286.17	36.74	23.23	11.61	8.58	518.01	611.61	93.60	.....
376.75	160.92	135.16	67.58	37.54	1,009.31	1,072.29	62.98	.....
15,647.97	4,397.45	3,890.27	1,945.14	1,026.08	42,677.65	41,092.87	.....	1,584.78
3,951.62	3,195.78	2,832.63	1,416.32	745.69	20,928.68	23,556.94	2,628.26	.....
3,582.67	985.97	873.85	436.92	230.06	10,662.05	11,109.47	447.42	.....
4,319.83	2,389.05	2,117.58	1,058.79	557.45	16,514.63	14,974.15	.....	1,540.48
9,912.33	3,918.62	3,473.33	1,736.67	914.36	32,685.70	34,096.93	1,411.23	.....

power districts.

NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power the amounts remaining to be credited to certain districts or charged to the adjustment) of the actual costs in the

Rural power districts and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
Saltfleet R.P.D.—Saltfleet, Barton, Binbrook and Grimsby N. twps.	214,042.38	107,021.19	107,021.19	13,237.80
Sandwich R.P.D.—Sandwich W., Sandwich E., Sandwich S., Maidstone, Anderdon and Colchester N. twps. . .	288,548.74	144,274.37	144,274.37	27,330.31
Sarnia R.P.D.—Sarnia, Moore and Plympton twps.	*175,174.87	85,031.45	90,143.42	14,162.85
Scarboro R.P.D.—Scarboro, Pickering and York N. twps.	106,497.02	53,248.51	53,248.51	5,179.73
Seaforth R.P.D.—Tuckersmith and McKillop twps.	*16,006.09	7,503.18	8,502.91	1,664.82
Simcoe R.P.D.—Woodhouse, Charlottetown, Windham and Townsend twps.	*50,300.28	24,365.84	25,934.44	3,594.93
Stamford R.P.D.—Stamford and Thorold twps.	25,954.28	12,977.14	12,977.14	3,581.06
Stratford R.P.D.—Ellice, Downie and Easthope N. twps.	*49,613.28	24,548.70	25,064.58	4,409.97
Strathroy R.P.D.—Adelaide, Metcalfe and Caradoc twps.	*22,746.84	11,196.64	11,550.20	1,303.19
Streetsville R.P.D.—Toronto, Trafalgar, Esquesing and Chinguacousy twps.	127,025.73	63,512.87	63,512.86	5,284.53
Tavistock R.P.D.—Easthope N., Easthope S. and Zorra E. twps.	76,591.46	38,295.73	38,295.73	2,843.50
Thamesville R.P.D.—Camden, Euphemia, Zone, Orford, Howard, Chatham and Harwich twps.	*42,007.15	20,771.67	21,235.48	2,051.70
Tilbury R.P.D.—Dover W., Tilbury E., Tilbury W. and Tilbury N. twps.	*42,232.14	20,894.73	21,337.41	3,567.21
Tillsonburg R.P.D.—Norwich S., Bayham, Dorchester S., Malahide, Dereham, Middleton and Norwich N. twps.	150,869.01	75,434.51	75,434.50	7,687.36
Wallaceburg R.P.D.—Dover E., Chatham and Sombra twps.	*89,997.05	44,804.01	45,193.04	5,631.17
Walton R.P.D.—Wawanosh W., Wawanosh E., Morris, Gray, Hullett and McKillop twps.	*43,915.45	20,647.18	23,268.27	2,556.00
Walsingham R.P.D.—Walsingham S. and Charlotteville twps.	*28,401.39	14,013.93	14,387.46	2,732.48
Waterdown R.P.D.—Flamboro E., Flamboro W. and Nelson twps.	*71,417.97	34,216.20	37,201.77	9,399.17
Waterford R.P.D.—Windham and Townsend twps.	47,048.49	23,524.25	23,524.24	2,495.13

Note.—Items marked * include portions of transmission lines used for purposes of rural

RURAL POWER DISTRICTS

RURAL OPERATING

District, the revenues collected from (or charged to) customers within each district, and Municipalities comprising certain other districts upon ascertainment (by annual year ending October 31, 1929

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
8,740.11	4,622.95	4,097.62	2,048.81	1,078.71	33,826.00	38,854.48	5,028.48	.....
24,439.34	5,823.57	5,161.81	2,580.90	1,358.86	66,694.79	77,586.33	10,891.54	.....
10,596.02	3,764.36	3,240.47	1,620.24	878.37	34,262.31	37,335.61	3,073.30	.....
3,056.07	2,177.12	1,909.21	954.60	508.00	13,784.73	20,128.28	6,343.55	.....
1,593.29	371.09	311.20	155.60	86.59	4,182.59	3,555.89	.....	626.70
1,459.83	1,146.08	985.29	492.64	267.42	7,946.19	10,034.81	2,088.62	.....
4,390.76	564.32	500.20	250.10	131.68	9,418.12	10,016.17	598.05	.....
4,071.89	1,073.66	942.51	471.26	250.52	11,219.81	11,403.33	183.52	.....
838.66	461.87	404.16	202.08	107.77	3,317.73	3,917.57	599.84	.....
2,952.79	2,428.43	2,152.48	1,076.24	566.64	14,461.11	16,360.01	1,898.90	.....
3,754.85	1,441.34	1,277.56	638.78	336.32	10,292.35	10,441.15	148.80	.....
2,160.92	909.65	798.75	399.38	212.26	6,532.66	8,163.26	1,630.60	.....
748.54	729.63	637.86	318.93	170.25	6,172.42	8,431.71	2,259.29	.....
6,515.63	3,240.42	2,872.19	1,436.09	756.12	22,507.81	24,886.41	2,378.60	.....
5,133.18	2,548.13	1,779.86	889.93	470.37	16,452.64	17,132.49	679.85	.....
2,156.36	1,021.62	858.68	429.34	238.38	7,260.38	9,049.47	1,789.09	.....
854.09	440.70	383.15	191.57	102.83	4,704.82	5,873.32	1,168.50	.....
3,087.59	1,464.86	1,238.69	619.35	341.81	16,151.47	23,549.31	7,397.84	.....
1,232.74	595.67	527.98	263.99	138.99	5,254.50	5,538.21	283.71	.....

power districts.

NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power amounts remaining to be credited to certain districts or charged to the adjustment) of the actual costs in the

Rural power districts and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
Welland R.P.D. —Bertie, Pelham, Thorold, Crowland, Wainfleet and Humberstone twps.	*324,272.47	161,422.54	162,849.93	26,893.26
Woodbridge R.P.D. —Toronto, Vaughan, Etobicoke, Toronto Gore, Albion, King, Chinguacousy and York N. twps.	*258,437.41	128,871.88	129,565.53	12,442.69
Woodstock R.P.D. —Oxford W., Oxford N., Oxford E., Blenheim, Blandford, Zorra W. and Zorra E. twps. ...	175,159.62	87,579.81	87,579.81	11,073.38
	7,600,271.37		3,824,458.20	
Non-operating capital.....	78,805.62		78,805.62	
Totals.....	7,679,076.99	3,775,813.17	3,903,263.82	500,499.08

Note.—Items marked * include portions of transmission lines used for purposes of rural

RURAL POWER DISTRICTS—Continued

RURAL OPERATING

District, the revenues collected from (or charged to) customers within each district, and the Municipalities comprising certain other districts upon ascertainment (by annual year ending October 31, 1928

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
22,968.74	6,731.81	5,940.52	2,970.25	1,570.78	67,075.36	76,567.56	9,492.20	.....
10,792.81	5,413.30	4,785.04	2,392.52	1,263.12	37,089.48	41,903.00	4,813.52	.....
6,034.93	3,736.68	3,312.06	1,656.03	871.92	26,685.00	30,010.43	3,325.43	.....
367,223.50	156,259.41	137,071.36	68,535.68	36,330.90	1,265,919.93	1,432,978.27	180,747.33	13,688.99

Net Credit..... \$167,058.34

power districts.

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1929, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1928		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Acton.....	Jan., 1913	1,406.56			1,406.56
Agincourt.....	Nov., 1922		249.70	249.70	
Ailsa Craig.....	Jan., 1916	508.85			508.85
Alvinston.....	April, 1922		256.26	256.26	
Amherstburg.....	Nov., 1925	2,362.46			2,362.46
Ancaster twp.....	May, 1923	696.64			696.64
Arkona.....	Dec., 1926	288.72			288.72
Aylmer.....	Mar., 1918	2,595.31			2,595.31
Ayr.....	Jan., 1915	381.06			381.06
Baden.....	May, 1912	1,120.03			1,120.03
Barton twp.....	May, 1924	295.76			295.76
Beachville.....	Aug., 1912	381.31			381.31
Belle River.....	Dec., 1922	563.66			563.66
Blenheim.....	Nov., 1915	226.55			226.55
Blyth.....	July, 1924	232.92			232.92
Bolton.....	Feb., 1915	738.40			738.40
Bothwell.....	Sept., 1915	218.01			218.01
Brampton.....	Nov., 1911	2,172.97			2,172.97
Brantford.....	Feb., 1914	15,488.94			15,488.94
Brantford twp.....	May, 1924	456.12			456.12
Bridgeport.....	Mar., 1928	614.69			614.69
Brigden.....	Jan., 1918	1,533.94			1,533.94
Brussels.....	July, 1924	628.85			628.85
Burford.....	June, 1915	1,401.86			1,401.86
Burgessville.....	Nov., 1916	492.30			492.30
Caledonia.....	Oct., 1912	198.42			198.42
Campbellville.....	Jan., 1925	116.53			116.53
Cayuga.....	Nov., 1924	16.97			16.97
Chatham.....	Feb., 1915	5,869.70			5,869.70
Chippawa.....	Sept., 1919		48.61	48.61	
Clifford.....	May, 1924	187.53			187.53
Clinton.....	Mar., 1914		331.67	331.67	
Comber.....	May, 1915		762.28	762.28	
Cottam.....	Nov., 1926	370.71			370.71
Courtright.....	Dec., 1923	236.88			236.88
Dashwood.....	Sept., 1917	557.63			557.63
Delaware.....	Mar., 1915	187.96			187.96
Dorchester.....	Dec., 1914	491.20			491.20
Drayton.....	Mar., 1918		321.98	321.98	
Dresden.....	April, 1915		904.41	904.41	
Drumbo.....	Dec., 1914	339.86			339.86
Dublin.....	Oct., 1917	308.93			308.93
Dundas.....	Jan., 1911	1,829.86			1,829.86
Dunnville.....	June, 1918	3,869.93			3,869.93
Dutton.....	Sept., 1915	895.85			895.85

SYSTEM

CREDIT OR CHARGE

supplied to it to October 31, 1928, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1929

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1929		Accumulated amount standing as a credit or charge on October 31, 1929	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
17.11		1,468.21		1,485.32	
	2.90	426.39		423.49	
7.89		149.14		157.03	
	3.48		47.74		51.22
31.61		2,841.86		2,873.47	
10.00		979.44		989.44	
3.48		495.09		498.57	
35.95		2,806.91		2,842.86	
5.01		287.43		292.44	
15.25		578.64		593.89	
3.79		407.94		411.73	
5.01		1,337.24		1,342.25	
7.71		507.40		515.11	
3.43		1,220.02		1,223.45	
3.06		790.10		793.16	
10.22		518.66		528.88	
2.75		614.08		616.83	
28.58		9,160.33		9,188.91	
213.87		16,441.23		16,655.10	
6.55			196.05		189.50
8.08			70.99		62.91
19.16		951.65		970.81	
8.20		454.77		462.97	
25.45		642.95		668.40	
6.90		522.54		529.44	
2.61		617.84		620.45	
1.53		318.75		320.28	
.26		662.66		662.92	
77.19		12,464.05		12,541.24	
	0.66	305.51		304.85	
2.79		216.65		219.44	
	4.43	458.12		453.69	
	13.37	429.14		415.77	
6.15		293.26		299.41	
3.58		520.60		524.18	
7.39		261.45		268.84	
3.10		242.20		245.30	
8.11		312.14		320.25	
	4.76	47.13		42.37	
	12.69		582.59		595.28
5.41		227.54		232.95	
3.99			81.75		77.76
23.66		3,629.50		3,653.16	
53.86		4,465.48		4,519.34	
10.80		337.19		347.99	

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1929, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1928		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
East Windsor.....	Nov., 1922	7,554.16			7,554.16
Elmira.....	Nov., 1913	1,722.76			1,722.76
Elora.....	Nov., 1914	1,233.66			1,233.66
Embro.....	Jan., 1915		12.97	12.97	
Erieau.....	July, 1924	140.24			140.24
Erie Beach.....	July, 1925		20.63	20.63	
Essex.....	Nov., 1923	1,608.48			1,608.48
Etobicoke twp.....	Aug., 1917	5,050.31			5,050.31
Exeter.....	June, 1916	2,596.83			2,596.83
Fergus.....	Nov., 1914	1,309.34			1,309.34
Fonthill.....	June, 1926		6.40	6.40	
Forest.....	Mar., 1917	1,100.52			1,100.52
Galt.....	May, 1911	17,133.38			17,133.38
Georgetown.....	Sept., 1913	1,767.94			1,767.94
Glencoe.....	Aug., 1920	352.45			352.45
Goderich.....	Feb., 1914		2,475.98	2,475.98	
Granton.....	July, 1916	392.77			392.77
Guelph.....	Dec., 1910	14,739.01			14,739.01
Hagersville.....	Sept., 1913	1,879.48			1,879.48
Hamilton.....	Feb., 1911	97,929.92			97,929.92
Harriston.....	July, 1916	1,153.20			1,153.20
Harrow.....	Nov., 1923	2,107.31			2,107.31
Hensall.....	Jan., 1917	714.83			714.83
Hespeler.....	Feb., 1911	3,560.47			3,560.47
Highgate.....	Dec., 1916	77.50			77.50
Humberstone.....	Oct., 1924		164.06	164.06	
Ingersoll.....	May, 1911	6,659.93			6,659.93
Jarvis.....	Feb., 1924	191.75			191.75
Kingsville.....	Nov., 1923	2,109.22			2,109.22
Kitchener.....	Jan., 1911	23,363.83			23,363.83
Lambeth.....	April, 1915	650.09			650.09
La Salle.....	Nov., 1925	1,166.72			1,166.72
Leamington.....	Nov., 1923	5,189.67			5,189.67
Listowel.....	June, 1916	1,793.58			1,793.58
London.....	Jan., 1911	55,138.00			55,138.00
London Railway Commission.....	Aug., 1914	3,525.94			3,525.94
London twp.....	Jan., 1925	976.22			976.22
Lucan.....	Feb., 1915	674.81			674.81
Lynden.....	Nov., 1915	123.86			123.86
Markham.....	April, 1920	1,634.23			1,634.23
Merlin.....	Dec., 1922		559.37	559.37	
Merritton.....	Nov., 1920	359.50			359.50
Milton.....	April, 1913		932.94	932.94	
Milverton.....	June, 1916	1,924.41			1,924.41
Mimico.....	May, 1912	3,253.46			3,253.46

SYSTEM—Continued

CREDIT OR CHARGE

supplied to it to October 31, 1928, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1929

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1929		Accumulated amount standing as a credit or charge on October 31, 1929	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
95.20		16,909.68		17,004.88	
22.28		1,970.13		1,992.41	
15.82		1,086.41		1,102.23	
	0.17	470.90		470.73	
1.86		254.00		255.86	
	0.25		75.69		75.94
26.29		1,224.39		1,250.68	
66.41		8,682.20		8,748.61	
36.46		772.95		809.41	
16.36		1,948.19		1,964.55	
	0.12	388.89		388.77	
14.23		1,202.11		1,216.34	
238.50		16,979.15		17,217.65	
22.67		1,250.70		1,273.37	
5.87		1,341.72		1,347.59	
	36.63	1,391.49		1,354.86	
5.04		295.82		300.86	
193.83		16,847.04		17,040.87	
31.33		3,110.92		3,142.25	
1,362.97		78,716.21		80,079.18	
15.60		1,199.00		1,214.60	
31.23		1,290.61		1,321.84	
9.28		816.11		825.39	
49.16		3,897.88		3,947.04	
1.02		346.07		347.09	
	2.25	415.64		413.39	
92.01		5,435.63		5,527.64	
2.96		476.40		479.36	
28.38		2,137.01		2,165.39	
307.25		24,634.34		24,941.59	
8.19		414.09		422.28	
14.70		1,109.16		1,123.86	
65.40		3,722.99		3,788.39	
26.73		2,171.09		2,197.82	
725.10		52,871.00		53,596.10	
45.60		6,966.93		7,012.53	
12.30		1,338.22		1,350.52	
8.82		546.69		555.51	
1.85		289.64		291.49	
23.83		1,772.27		1,796.10	
	7.42	827.32		819.90	
4.73		885.88		890.61	
	11.45	3,068.68		3,057.23	
25.24		837.21		862.45	
48.49		4,863.43		4,911.92	

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1929, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1928		Cash receipts and payments on account of such credits and charges, also adjust- ments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Mitchell.....	Sept., 1911	281.89			281.89
Moorefield.....	Mar., 1918	299.43			299.43
Mount Brydges.....	Mar., 1915	229.27			229.27
Newbury.....	Mar., 1921	39.37			39.37
New Hamburg.....	Mar., 1911	1,933.38			1,933.38
New Toronto.....	Feb., 1914	10,471.87			10,471.87
Niagara Falls.....	Dec., 1915	405.57			405.57
Niagara-on-the-Lake.....	Aug., 1919	1,282.59			1,282.59
Norwich.....	May, 1912	1,608.71			1,608.71
Oil Springs.....	Feb., 1918		572.16		
Otterville.....	Feb., 1916	538.74			538.74
Palmerston.....	July, 1916	1,795.97			1,795.97
Paris.....	Feb., 1914	2,699.07			2,699.07
Parkhill.....	May, 1920	1,321.47			1,321.47
Petrolia.....	May, 1916	1,471.16			1,471.16
Plattsville.....	Dec., 1914	343.49			343.49
Point Edward.....	Nov., 1916	484.78			484.78
Port Colborne.....	Mar., 1920	243.02			243.02
Port Credit.....	Aug., 1912	86.39			86.39
Port Dalhousie.....	Nov., 1912	1,051.16			1,051.16
Port Dover.....	Dec., 1921	776.00			776.00
Port Rowan.....	Nov., 1926		1,396.79		
Port Stanley.....	April, 1912	1,631.83			1,631.83
Preston.....	Jan., 1911	4,665.29			4,665.29
Princeton.....	Jan., 1915	505.84			505.84
Queenston.....	Mar., 1921		267.01		
Richmond Hill.....	June, 1925	1,546.64			1,546.64
Ridgetown.....	Dec., 1915	162.88			162.88
Riverside.....	Nov., 1922	3,710.60			3,710.60
Rockwood.....	Sept., 1913	960.88			960.88
Rodney.....	Feb., 1917	427.83			427.83
St. Catharines.....	April, 1914		1,679.21	1,679.21	
St. Clair Beach.....	Nov., 1922	348.24			348.24
St. George.....	Sept., 1915	1,008.99			1,008.99
St. Jacobs.....	Sept., 1917	608.94			608.94
St. Marys.....	May, 1911	2,868.90			2,868.90
St. Thomas.....	April, 1911	8,593.62			8,593.62
Sandwich.....	Feb., 1924	7,927.02			7,927.02
Sarnia.....	Dec., 1916	6,446.87			6,446.87
Scarboro twp.....	Aug., 1918	4,199.85			4,199.85
Seaforth.....	Nov., 1911		47.24	47.24	
Simcoe.....	Aug., 1915	1,982.21			1,982.21
Springfield.....	Aug., 1917	485.77			485.77
Stamford twp.....	Nov., 1916	1,169.90			1,169.90
Stouffville.....	Sept., 1923	1,503.31			1,503.31

SYSTEM—Continued

CREDIT OR CHARGE

supplied to it to October 31, 1928, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1929

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1929		Accumulated amount standing as a credit or charge on October 31, 1929	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3.71	1,133.36	.....	1,137.07	.....
4.95	178.63	.....	183.58	.....
3.19	506.41	.....	509.60	.....
0.60	156.03	.....	156.63	.....
24.15	827.76	.....	851.91	.....
152.63	16,113.33	.....	16,265.96	.....
6.26	3,621.36	.....	3,615.10
15.97	833.99	.....	849.96	.....
22.25	1,073.57	.....	1,095.82	.....
.....	22.89	215.41	.....	.....	379.64
7.65	516.40	.....	524.05	.....
24.55	1,245.39	.....	1,269.94	.....
36.97	2,762.68	.....	2,799.65	.....
18.42	823.33	.....	841.75	.....
23.05	4,286.48	.....	4,309.53	.....
4.32	180.06	.....	184.38	.....
6.38	1,464.16	.....	1,470.54	.....
3.33	1,074.30	.....	1,077.63	.....
1.20	1,162.46	.....	1,163.66	.....
12.90	1,960.73	.....	1,973.63	.....
11.89	627.10	.....	638.99	.....
.....	55.87	755.69	.....	.....	696.97
33.49	1,806.99	.....	1,840.48	.....
60.33	5,556.13	.....	5,616.46	.....
6.32	396.19	.....	402.51	.....
.....	10.68	205.80	.....	.....	71.89
26.16	974.80	.....	1,000.96	.....
2.09	1,522.77	.....	1,524.86	.....
46.76	3,139.87	.....	3,186.63	.....
12.22	480.59	.....	492.81	.....
5.30	88.05	.....	82.75
.....	20.24	2,083.20	.....	2,062.96	.....
4.39	315.02	.....	319.41	.....
14.33	876.39	.....	890.72	.....
10.41	642.40	.....	652.81	.....
37.10	2,192.54	.....	2,229.64	.....
106.42	13,388.24	.....	13,494.66	.....
105.11	5,922.50	.....	6,027.61	.....
75.60	19,735.65	.....	19,811.25	.....
48.79	6,901.76	.....	6,950.55	.....
.....	0.79	1,057.08	.....	1,056.29	.....
22.37	844.27	.....	866.64	.....
7.73	450.70	.....	458.43	.....
15.51	1,452.30	.....	1,467.81	.....
26.03	1,147.44	.....	1,173.47	.....

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1929, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1928		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Stratford.....	Jan., 1911	16,614.64			16,614.64
Strathroy.....	Dec., 1914	2,464.63			2,464.63
Sutton.....	Aug., 1923	811.35			811.35
Tavistock.....	Nov., 1916	1,559.25			1,559.25
Tecumseh.....	Nov., 1922	1,086.66			1,086.66
Thamesford.....	Feb., 1914	1,208.78			1,208.78
Thamesville.....	Oct., 1915	126.16			126.16
Thedford.....	May, 1922	507.99			507.99
Thordale.....	Mar., 1914	399.91			399.91
Thorold.....	Jan., 1921	1,074.28			1,074.28
Tilbury.....	April, 1915		235.70	235.70	
Tillsonburg.....	Aug., 1911	2,977.37			2,977.37
Toronto.....	June, 1911	239,017.91			239,017.91
Toronto twp.....	Aug., 1913	2,237.63			2,237.63
Walkerville.....	Nov., 1914	18,055.68			18,055.68
Wallaceburg.....	Feb., 1915	3,512.14			3,512.14
Wardsville.....	June, 1921	281.22			281.22
Waterdown.....	Nov., 1911	572.14			572.14
Waterford.....	April, 1915	914.52			914.52
Waterloo.....	Dec., 1910	6,637.78			6,637.78
Watford.....	Sept., 1917	532.66			532.66
Welland.....	Sept., 1917	2,249.26			2,249.26
Wellesley.....	Nov., 1916	329.22			329.22
West Lorne.....	Jan., 1917	1,153.82			1,153.82
Weston.....	Jan., 1911	5,683.38			5,683.38
Wheatley.....	Feb., 1924	2,357.94			2,357.94
Windsor.....	Oct., 1914	36,225.94			36,225.94
Woodbridge.....	Dec., 1914	732.00			732.00
Woodstock.....	Jan., 1911	11,190.10			11,190.10
Wyoming.....	Nov., 1916	127.54			127.54
York East twp.....	July, 1925	3,382.71			3,382.71
York North twp.....	Nov., 1923	4,334.98			4,334.98
Zurich.....	Sept., 1917	599.28			599.28
Toronto Transport'n Commission.	Jan., 1927	12,520.93			12,520.93
RURAL POWER DISTRICTS					
Acton R.P.D.—Esquesing twp...	Feb., 1928		23.58		
Alvinston R.P.D.—Brooke twp...	June, 1929				
Amherstburg R.P.D.—Ander-					
don, Malden, Colchester N. and					
Colchester S. twps.....	Nov., 1923	8,166.59			
Aylmer R.P.D.—Dorchester S.,					
Malahide, Yarmouth, Bayham					
and Dorchester N. twps.....	Nov., 1922	445.30			177.01
Ayr R.P.D.—Dumfries N., Dum-					
fries S. and Blenheim twps.....	July, 1926	492.38			

SYSTEM—Continued

CREDIT OR CHARGE

supplied to it to October 31, 1928, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1929

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1929		Accumulated amount standing as a credit or charge on October 31, 1929	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
221.43		17,858.58		18,080.01	
32.86		1,533.25		1,566.11	
10.14		691.84		701.98	
21.99		207.61		229.60	
13.69		714.86		728.55	
17.28		838.28		855.56	
1.63		855.84		857.47	
6.91		533.04		539.95	
6.79		214.17		220.96	
13.30		1,499.80		1,513.10	
	3.05	1,485.02		1,481.97	
38.77		2,085.12		2,123.89	
3,143.25		444,963.76		448,107.01	
27.22		4,915.24		4,942.46	
227.55		18,991.89		19,219.44	
53.11		5,021.02		5,074.13	
4.81		238.59		243.40	
7.15		774.64		781.79	
11.53		582.63		594.16	
85.11		4,144.05		4,229.16	
6.65		1,146.04		1,152.69	
29.09		5,616.78		5,645.87	
4.33		400.88		405.21	
15.30			741.71		726.41
84.83		9,012.20		9,097.03	
35.89		298.59		334.48	
504.19		55,297.42		55,801.61	
9.14		1,127.23		1,136.37	
143.48		12,685.36		12,828.84	
2.00		143.14		145.14	
34.12		14,486.34		14,520.46	
56.06		3,661.87		3,717.93	
7.69		636.96		644.65	
234.05		6,416.25		6,650.30	
	0.94	107.29		82.77	
			6.95		6.95
326.66		3,659.08		12,152.33	
16.02		3,929.80		4,214.11	
19.70		868.04		1,380.12	

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1929, and the accumulated amount standing

Rural power district	Date commenced operating	Net credit or charge at October 31, 1928		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Baden R.P.D. —Wilmot, Zorra E. Easthope S., Easthope N., Wellesley, Waterloo and Blenheim twps.	Sept., 1922	356.21	.....	.....	25.75
Beamsville R.P.D. —Grimsby N., Grimsby S., Caister, Gainsboro, Clinton and Louth twps.	Jan., 1923	8,546.34	.....	1.15	.....
Belle River R.P.D. —Maidstone and Rochester twps.	Dec., 1922	8,769.84	.....	.....	.....
Blenheim R.P.D. —Raleigh and Harwich twps.	July, 1924	2,227.63	.....	.....	.....
Bond Lake R.P.D. —King, Vaughan, Markham and Whitchurch twps.	Mar., 1924	20,966.92	.....	.....	70.27
Bothwell R.P.D. —Ekfrid, Zone, Orford, Aldborough and Mara twps.	Dec., 1923	5,016.41	.....	.....	.....
Brampton R.P.D. —Chingua-cousy and Toronto twps.	Nov., 1923	126.28	.....	.....	.....
Brant R.P.D. —Brantford, Burford, Blenheim, Dumfries S., Onondaga and Oakland twps.	Oct., 1922	.....	1,189.04	.....	359.56
Brigden R.P.D. —Moore and Sombra twps.	Jan., 1927	.....	848.32	.....	.....
Burford R.P.D. —Burford, Brantford and Oakland twps.	Dec., 1926	.....	397.23	.....	.....
Caledonia R.P.D. —Ancaster, Seneca, Glanford, Oneida, Binbrook, Caister and Barton twps.	Oct., 1925	.....	2,746.57	.....	249.39
Chatham R.P.D. —Dover E., Chatham, Raleigh and Harwich twps.	May, 1922	2,666.85	.....	.....	14.01
Chippawa R.P.D. —Willoughby and Bertie twps.	July, 1922	.....	77.97	.....	.....
Clinton R.P.D. —Goderich, Stanley, Tuckersmith and Hay twps.	July, 1928	.....	363.15	.....	.....
Delaware R.P.D. —Delaware, Westminster, Caradoc, Ekfrid, Lobo and London twps.	Oct., 1922	770.47	.....	.....	.....
Dorchester R.P.D. —London, Nissouri W., Nissouri E., Oxford N., Dorchester N., Dorchester S., Westminster and Yarmouth twps.	Dec., 1921	.....	866.10	.....	29.92
Dresden R.P.D. —Camden and Chatham Gore twps.	May, 1928	.....	19.19	.....	.....
Drumbo R.P.D. —Blenheim, Burford and Blandford twps.	Aug., 1922	725.89	.....	.....	.....
Dundas R.P.D. —Flamboro W., Beverly, Ancaster, Flamboro E. and Nelson twps.	Jan., 1922	429.29	.....	.....	.....
Dunnville R.P.D. —Moulton twp.	July, 1928	.....	14.91	.....	.....

SYSTEM—Continued

CREDIT OR CHARGE

supplied to it to October 31, 1928, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1929

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1929		Accumulated amount standing as a credit or charge on October 31, 1929	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
13.84	.....	1,400.18	.....	1,744.48	.....
341.85	.....	9,249.36	.....	18,138.70	.....
350.79	.....	6,684.88	.....	15,805.51	.....
89.11	.....	4,850.62	.....	7,167.36	.....
837.44	.....	6,667.73	.....	28,401.82	.....
200.66	.....	1,129.67	.....	6,346.74	.....
5.05	.....	1,806.34	.....	1,937.67	.....
.....	47.56	1,203.24	.....	.....	392.92
.....	33.93	477.82	.....	.....	404.43
.....	15.89	1,597.38	.....	1,184.26	.....
.....	116.56	1,690.00	.....	.....	1,422.52
106.26	.....	3,425.27	.....	6,184.37	.....
.....	3.12	1,423.18	.....	1,342.09	.....
.....	14.53	31.58	.....	.....	346.10
30.82	.....	2,751.57	.....	3,552.86	.....
.....	35.45	233.36	.....	.....	698.11
.....	0.77	247.11	.....	227.15	.....
29.04	.....	451.75	.....	1,206.68	.....
17.17	.....	6,176.94	.....	6,623.40	.....
.....	0.60	127.83	.....	112.32	.....

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1929, and the accumulated amount standing

Rural power district	Date commenced operating	Net credit or charge at October 31, 1928		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Dutton R.P.D.—Dunwich and Aldboro twps.	Feb., 1926	442.95			
Elmira R.P.D.—Woolwich twp. .	June, 1926	502.23			
Elora R.P.D.—Pilkington, Nichol, Garafraxa W. and Peel twps. . .	Jan., 1926	492.74			
Essex R.P.D.—Sandwich S., Maidstone, Rochester, Colchester N., Gosfield N. and Gosfield S. twps.	Nov., 1924	1,467.44			
Exeter R.P.D.—Hay, Stephen, Osborne, Tuckersmith, Biddulph and Bosanquet twps.	Nov., 1922	2,240.30			18.98
Forest R.P.D.—Plympton, Warwick, Bosanquet, Williams W. and Adelaide twps.	Nov., 1926		199.68		
Galt R.P.D.—Dumfries N. and Dumfries S. twps.	Oct., 1922	2,207.04			9.00
Georgetown R.P.D.—Esquesing and Chinguacousy twps.	Nov., 1924	1,124.79			
Goderich R.P.D.—Colborne and Goderich twps.	June, 1925	402.00			
Grantham R.P.D.—Grantham and Niagara twps.	Nov., 1924	491.47			
Guelph R.P.D.—Eramosa, Nasagaweya, Guelph and Puslinch twps.	Jan., 1925		421.99		
Haldimand R.P.D.—Walpole, Rainham, Cayuga N. and Oneida twps.	Oct., 1925	1,951.64			28.43
Harrow R.P.D.—Colchester S. and Malden twps.	Nov., 1923	1,372.29			
Ingersoll R.P.D.—Dorchester N., Dereham, Oxford N., Nissouri E., Zorra W. and Oxford W. twps.	Oct., 1922		1,661.07		
Jordan R.P.D.—Louth, Thorold, Pelham and Grantham twps. . .	May, 1922	702.87			
Keswick R.P.D.—Georgina and Gwillimbury N. twps.	Mar., 1924	4,396.65			28.35
Kingsville R.P.D.—Gosfield N., Gosfield S., Mersea and Romney twps.	Nov., 1923	9,404.73			51.23
Listowel R.P.D.—Wallace and Elma twps.	Oct., 1926	328.48			
London R.P.D.—Westminster, Delaware and London twps. . .	Nov., 1922	15,818.38			51.46
Lucan R.P.D.—Stephen, London, McGillivray and Biddulph twps.	June, 1926		488.62		
Lynden R.P.D.—Beverly, Ancaster, Brantford and Dumfries S. twps.	Feb., 1922		336.72		

SYSTEM—Continued

CREDIT OR CHARGE

supplied to it to October 31, 1928, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1929

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1929		Accumulated amount standing as a credit or charge on October 31, 1929	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
17.71	.....	1,098.72	.....	1,559.28	.....
20.09	.....		400.64	121.68	.....
19.71	.....	1,105.00	.....	1,617.45	.....
58.70	.....	3,886.10	.....	5,412.24	.....
89.11	.....	4,504.04	.....	6,814.47	.....
.....	7.99	419.64	.....	211.97	.....
88.07	.....	804.50	.....	3,090.61	.....
44.99	.....	2,036.32	.....	3,206.10	.....
16.08	.....	182.67	.....	600.75	.....
19.66	.....	1,016.68	.....	1,527.81	.....
.....	16.88		1,377.85		1,816.72
77.31	.....	993.54	.....	2,994.06	.....
54.89	.....	2,637.18	.....	4,064.36	.....
.....	66.44	4,314.98	.....	2,587.47	.....
28.11	.....	2,670.98	.....	3,401.96	.....
175.21	.....		2,709.73	1,833.78	.....
374.53	.....	5,293.29	.....	15,021.32	.....
13.14	.....	1,198.73	.....	1,540.35	.....
631.13	.....		5,410.56	10,987.49	.....
.....	19.54	482.27	.....		25.89
.....	13.47	762.41	.....	412.22	.....

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1929, and the accumulated amount standing

Rural Power District	Date commenced operating	Net credit or charge at October 31, 1928		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Markham R.P.D.—Markham, Scarboro, Pickering and Whitchurch twps.....	Dec., 1922	2,978.83			
Merlin R.P.D.—Romney, Tilbury E. and Raleigh twps.....	Nov., 1928				
Milton R.P.D.—Nassagaweya, Esquesing, Trafalgar and Nelson twps.....	Jan., 1925	1,304.59			
Milverton R.P.D.—Mornington twp.....	Aug., 1927		807.06		
Mitchell R.P.D.—Fullarton, Downie, Ellice, Logan and Elma twps.....	Dec., 1925	901.50			
Newmarket R.P.D.—Gwillimbury E., King, Whitchurch and Scott twps.....	Mar., 1924	2,104.17			
Niagara R.P.D.—Niagara twp...	Jan., 1922	11,096.36			
Norwich R.P.D.—Norwich N., Norwich S., Dereham, Oxford E., Burford and Windham twps....	May, 1925	3,621.13			127.58
Oil Springs R.P.D.—Enniskillen, Dawn and Brooke twps.....	Dec., 1925	1,249.48			
Palmerston R.P.D.—Maryborough, Wallace and Minto twps.....	Oct., 1926	164.36			
Petrolia R.P.D.—Plympton and Enniskillen twps.....	Aug., 1923		508.94	379.05	
Preston R.P.D.—Waterloo, Puslinch, Dumfries N. and Woolwich twps.....	April, 1922	6,551.25			63.95
Ridgetown R.P.D.—Howard, Orford, Harwich, Aldborough and Rondeau Park twps.....	Mar., 1922	1,037.46			
St. Jacobs R.P.D.—Wellesley and Woolwich twps.....	Nov., 1922	3,434.99			
St. Marys R.P.D.—Fullarton, Usborne, Blanshard and Downie twps.....	Dec., 1927		1,024.65		37.43
St. Thomas R.P.D.—Southwold, Yarmouth, Westminster and Dunwich twps.....	Aug., 1923	2,267.04		4.68	
Saltfleet R.P.D.—Saltfleet, Barton, Binbrook and Grimsby N. twps.....	Feb., 1922		5,252.38		171.05
Sandwich R.P.D.—Sandwich W., Sandwich E., Sandwich S., Maidstone, Anderdon and Colchester N. twps.....	July, 1922	26,394.21			95.66
Sarnia R.P.D.—Sarnia, Moore and Plympton twps.....	June, 1923	2,319.04			375.94
Scarboro R.P.D.—Scarboro, Pickering and York N. twps.....	Dec., 1923		302.61	582.00	

SYSTEM—Continued

CREDIT OR CHARGE

supplied to it to October 31, 1928, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1929

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1929		Accumulated amount standing as a credit or charge on October 31, 1929	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
119.15	3,781.51	.....	6,879.49	.....
.....	1,504.96	.....	1,504.96	.....
52.18	2,206.63	.....	3,563.40	.....
.....	32.28	.....	31.30	.....	870.64
36.06	71.44	.....	1,009.00	.....
84.17	2,437.55	.....	4,625.89	.....
443.85	2,064.32	.....	13,604.53	.....
141.85	3,253.68	.....	6,889.08	.....
49.98	1,113.45	.....	2,412.91	.....
6.57	93.60	.....	264.53	.....
.....	12.72	62.98	.....	.....	79.63
260.65	1,584.78	5,163.17	.....
41.50	2,628.26	.....	3,707.22	.....
137.40	447.42	.....	4,019.81	.....
.....	42.16	.....	1,540.48	.....	2,644.72
90.68	1,411.23	.....	3,773.63	.....
.....	210.67	5,028.48	.....	.....	605.62
1,052.13	10,891.54	.....	38,242.22	.....
85.12	3,073.30	.....	5,101.52	.....
3.52	6,343.55	.....	6,626.46	.....

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1929, and the accumulated amount standing

Rural Power District	Date commenced operating	Net credit or charge at October 31, 1928		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Seaforth R.P.D.—Tuckersmith, and McKillop twps.	Nov., 1927	112.47			
Simcoe R.P.D.—Woodhouse, Charlotteville, Windham, Townsend twps.	Nov., 1922	75.75			
Stamford R.P.D.—Stamford and Thorold twps.	Mar., 1922	5,482.17			
Stratford R.P.D.—Ellice, Downie and Easthope N. twps.	July, 1924		134.47		41.65
Strathroy R.P.D.—Adelaide, Metcalfe and Caradoc twps.	Dec., 1926	995.42			
Streetsville R.P.D.—Toronto, Trafalgar, Esquesing and Chinguacousy twps.	Nov., 1922	279.34			
Tavistock R.P.D.—Easthope N., Easthope S. and Zorra E. twps.	April, 1923		1,173.43		
Thamesville R.P.D.—Camden, Euphemia, Zone, Orford, Heward, Chatham and Harwich twps.	Nov., 1927		627.52		
Tilbury R.P.D.—Dover W., Tilbury E., Tilbury W. and Tilbury N. twps.	Dec., 1923	330.84			
Tillsonburg R.P.D.—Norwich S., Bayham, Dorchester S., Malahide, Dereham, Middleton and Norwich N. twps.	Dec., 1923	5,747.82			
Wallaceburg R.P.D.—Dover E., Chatham and Sombra twps.	Jan., 1923	4,015.37			23.37
Walsingham R.P.D.—Walsingham S. and Charlotteville twps.	Dec., 1926		1,364.09		
Walton R.P.D.—Wawanosh W., Wawanosh E., Morris, Gray, Hullett and McKillop twps.	Nov., 1924		1,273.25		7.10
Waterdown R.P.D.—Flamboro, E., Flamboro W. and Nelson twps.	Oct., 1922	5,832.34			
Waterford R. P. D.—Windham and Townsend twps.			2,309.87		
Welland R.P.D.—Bertie, Pelham, Thorold, Crowland, Wainfleet and Humberstone twps.	April, 1922	7,777.21			123.90
Woodbridge R.P.D.—Toronto, Vaughan, Etobicoke, Toronto Gore, Albion, King, Chinguacousy and York N. twps.	Jan., 1923	3,808.53			
Woodstock R.P.D.—Oxford W., Oxford N., Oxford E., Blenheim, Blandford, Zorra W. and Zorra E. twps.	Feb., 1922	4,502.91			
Totals.		990,179.07	35,677.78	9,976.29	784,913.18

SYSTEM—Continued

CREDIT OR CHARGE

supplied to it to October 31, 1928, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1929

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1929		Accumulated amount standing as a credit or charge on October 31, 1929	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4.50	.....	.....	626.70	.....	509.73
3.03	.....	2,088.62	.....	2,167.40	.....
219.29	.....	598.05	.....	6,299.51	.....
.....	6.66	183.52	.....	0.74	.....
39.82	.....	599.84	.....	1,635.08	.....
11.17	.....	1,898.90	.....	2,189.41	.....
.....	46.94	148.80	.....	.....	1,071.57
.....	25.10	1,630.60	.....	977.98	.....
13.23	.....	2,259.29	.....	2,603.36	.....
229.91	.....	2,378.60	.....	8,356.33	.....
159.48	.....	679.85	.....	4,831.33	.....
.....	54.56	1,168.50	.....	.....	250.15
.....	51.15	1,789.09	.....	457.59	.....
233.29	.....	7,397.84	.....	13,463.47	.....
.....	92.39	283.71	.....	.....	2,118.55
307.33	.....	9,492.20	.....	17,452.84	.....
152.34	.....	4,813.52	.....	8,774.39	.....
180.12	.....	3,325.43	.....	8,008.46	.....
18,825.82	1,182.40	1,255,402.94	19,194.92	1,453,295.46	19,889.62

NIAGARA SYSTEM

Reserve for Renewals—October 31, 1929

Total provision for renewals to October 31, 1928.....	\$10,528,141.13	
Deduct:		
Expenditures to October 31, 1928.....	783,212.04	
Balance brought forward October 31, 1928.....		\$9,744,929.09
Added during the year ending October 31, 1929:		
Amounts charged to municipalities as part of the cost of power delivered to them.....	\$734,226.74	
Amounts included in costs of distribution of power within rural power districts.....	137,071.36	
Provision against equipment employed in respect of contracts with private companies which purchased power	255,944.12	
Reserve created in respect of lines taken over and converted into rural power districts.....	4,883.84	
Reserve provided in respect of certain rural lines transferred to rural power districts.....	957.00	
Interest at 4% per annum on the monthly balances at the credit of the account.....	389,990.74	
		1,523,073.80
		<u>\$11,268,002.89</u>
Deduct:		
Provision for renewals allowed on plant sold.....	\$38,439.72	
Provision for renewals on plant transferred.....	118.70	
Expenditures during the year ending October 31, 1929.....	87,683.32	
		126,241.74
Balance carried forward October 31, 1929.....		<u><u>\$11,141,761.15</u></u>

NIAGARA SYSTEM

Reserve for Obsolescence and Contingencies, October 31, 1929

Balance brought forward October 31, 1928.....	\$7,254,217.62	
Add:		
Amount collected in respect of a rural line transferred to rural power districts	93.17	
		<u>\$7,254,310.79</u>
Added during the year ending October 31, 1928:		
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them.....	\$2,092,652.99	
Amounts included in the costs of distribution of power within rural power districts.....	68,535.68	
Provision against equipment employed in respect of contracts with private customers which purchased power..	956,417.27	
Interest at 4% per annum on monthly balances at the credit of the account.....	290,172.43	
		3,407,778.37
		<u>\$10,662,089.16</u>
Deduct:		
Provision for contingencies on plant sold.....	\$13,866.93	
Expenditures during the year ending October 31, 1929.....	37,995.29	
		51,862.22
Balance carried forward October 31, 1929.....		<u><u>\$10,610,226.94</u></u>

NIAGARA SYSTEM

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system and interest allowed thereon to
October 31, 1929

Municipality	Period of years ending Oct. 31, 1929	Amount	Municipality	Period of years ending Oct. 31, 1929	Amount
		\$ c.			\$ c.
Acton.....	12 years	19,754.09	East Windsor.....	7 years	69,976.06
Agincourt.....	5 "	2,370.78	Elmira.....	11 "	30,053.06
Ailsa Craig.....	9 "	6,289.90	Elora.....	10 "	14,411.93
Alvinston.....	6 "	5,638.60	Embro.....	10 "	4,221.12
Amherstburg.....	12 "	15,095.02	Erieau.....	6 "	1,289.29
Ancaster twp.....	6 "	6,709.88	Erie Beach.....	5 "	346.07
Arkona.....	3 "	1,172.77	Essex.....	6 "	8,771.43
Aylmer.....	6 "	13,361.67	Etobicoke twp.....	7 "	46,496.78
Ayr.....	10 "	4,787.42	Exeter.....	8 "	14,298.17
Baden.....	12 "	13,049.75	Fergus.....	10 "	15,629.23
Barton twp.....	6 "	1,474.05	Fonthill.....	4 "	1,100.56
Beachville.....	12 "	15,977.87	Forest.....	7 "	9,344.89
Belle River.....	7 "	2,720.32	Galt.....	13 "	200,064.67
Blenheim.....	9 "	13,135.16	Georgetown.....	11 "	34,174.89
Blyth.....	6 "	2,526.64	Glencoe.....	6 "	6,011.99
Bolton.....	9 "	7,252.75	Goderich.....	10 "	44,460.03
Bothwell.....	9 "	7,980.85	Granton.....	8 "	3,066.45
Brampton.....	13 "	57,005.50	Guelph.....	13 "	232,084.13
Brantford.....	10 "	289,891.38	Hagersville.....	11 "	30,265.73
Brantford twp.....	6 "	7,262.05	Hamilton.....	13 "	1,113,961.28
Bridgeport.....	2 "	873.82	Harriston.....	8 "	11,794.29
Brigden.....	7 "	4,345.51	Harrow.....	6 "	4,970.97
Brussels.....	6 "	3,719.76	Hensall.....	8 "	4,851.29
Burford.....	9 "	4,740.59	Hespeler.....	13 "	31,054.05
Burgessville.....	8 "	1,900.04	Highgate.....	8 "	3,855.04
Caledonia.....	12 "	7,187.97	Humberstone.....	6 "	4,737.45
Campbellville.....	5 "	378.11	Ingersoll.....	13 "	66,154.18
Cayuga.....	5 "	2,436.30	Jarvis.....	6 "	4,146.08
Chatham.....	9 "	141,247.30	Kingsville.....	6 "	12,188.17
Chippawa.....	7 "	6,018.18	Kitchener.....	13 "	433,702.15
Clifford.....	6 "	1,705.10	Lambeth.....	9 "	3,146.40
Clinton.....	10 "	16,500.61	La Salle.....	4 "	2,846.24
Comber.....	9 "	7,468.73	Leamington.....	6 "	18,730.10
Cottam.....	3 "	668.46	Listowel.....	8 "	23,789.86
Courtwright.....	6 "	1,655.98	London.....	13 "	783,830.02
Dashwood.....	7 "	3,108.96	London Ry. Comm..	10 "	56,785.79
Delaware.....	9 "	930.37	London twp.....	5 "	3,178.00
Dorchester.....	10 "	2,419.24	Lucan.....	9 "	7,695.91
Drayton.....	6 "	3,966.91	Lynden.....	9 "	6,082.61
Dresden.....	9 "	10,951.57	Markham.....	6 "	4,935.55
Drumbo.....	10 "	2,222.32	Merlin.....	6 "	4,326.67
Dublin.....	7 "	2,085.22	Merritton.....	8 "	20,169.48
Dundas.....	13 "	54,336.48	Milton.....	11 "	43,922.42
Dunnville.....	6 "	18,132.21	Milverton.....	8 "	19,197.70
Dutton.....	9 "	6,822.89	Mimico.....	12 "	42,951.32

NIAGARA SYSTEM—Continued

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system and interest allowed thereon to
October 31, 1929

Municipality	Period of years ending Oct. 31, 1929	Amount	Municipality	Period of years ending Oct. 31, 1929	Amount
		\$ c.			\$ c.
Mitchell.....	13 years	15,941.91	Stratford.....	13 years	209,355.06
Moorefield.....	6 "	2,139.50	Strathroy.....	10 "	29,294.07
Mount Brydges....	9 "	2,241.64	Sutton.....	6 "	3,285.77
Newbury.....	6 "	1,384.77	Tavistock.....	8 "	14,577.37
New Hamburg.....	13 "	18,880.47	Tecumseh.....	7 "	6,388.28
New Toronto.....	10 "	142,168.37	Thamesford.....	10 "	6,139.41
Niagara Falls.....	9 "	195,975.33	Thamesville.....	9 "	5,798.72
Niagara-on-the-Lake.	6 "	9,261.15	Thedford.....	6 "	2,755.72
Norwich.....	12 "	14,276.23	Thorndale.....	10 "	3,483.51
Oil Springs.....	6 "	9,880.97	Thorold.....	7 "	20,705.63
Otterville.....	8 "	2,751.04	Tilbury.....	9 "	15,042.43
Palmerston.....	8 "	14,327.66	Tillsonburg.....	13 "	30,823.97
Paris.....	10 "	42,104.88	Toronto.....	13 "	5,999,532.06
Parkhill.....	6 "	5,819.61	Toronto twp.....	11 "	24,687.29
Petrolia.....	8 "	36,915.30	Walkerville.....	10 "	212,834.82
Plattsville.....	10 "	3,316.20	Wallaceburg.....	9 "	64,327.16
Point Edward.....	7 "	14,657.11	Wardsville.....	6 "	992.25
Port Colborne.....	8 "	26,855.40	Waterdown.....	13 "	8,699.12
Port Credit.....	12 "	10,873.46	Waterford.....	9 "	10,297.65
Port Dalhousie.....	8 "	9,073.38	Waterloo.....	13 "	90,056.22
Port Dover.....	6 "	6,585.64	Watford.....	7 "	6,745.14
Port Rowan.....	3 "	1,374.26	Welland.....	7 "	90,341.40
Port Stanley.....	12 "	14,023.94	Wellesley.....	8 "	6,651.87
Preston.....	13 "	100,387.06	West Lorne.....	8 "	11,726.59
Princeton.....	10 "	2,232.76	Weston.....	13 "	78,289.84
Queenston.....	6 "	2,256.49	Wheatley.....	6 "	3,019.42
Richmond Hill.....	5 "	3,648.45	Windsor.....	10 "	631,682.98
Ridgetown.....	9 "	14,163.93	Woodbridge.....	10 "	9,975.03
Riverside.....	7 "	21,479.09	Woodstock.....	13 "	127,284.27
Rockwood.....	11 "	3,958.27	Wyoming.....	8 "	2,739.58
Rodney.....	7 "	3,960.61	York East twp.....	5 "	47,209.36
St. Catharines.....	8 "	170,083.35	York North twp.....	6 "	16,098.31
St. Clair Beach.....	7 "	1,922.42	Zurich.....	7 "	4,710.23
St. George.....	9 "	4,625.81	Sandwich, Windsor & Amherstburg Ry..	7 "	49,483.52
St. Jacobs.....	7 "	4,579.77	Toronto Transporta- tion Commission..	3 "	100,558.93
St. Marys.....	13 "	48,975.90			
St. Thomas.....	13 "	165,744.40			
Sandwich.....	6 "	66,478.99			
Sarnia.....	8 "	191,748.23			
Scarboro twp.....	6 "	39,843.39			
Seaforth.....	13 "	25,905.98			
Simcoe.....	9 "	25,835.85			
Springfield.....	7 "	3,181.18			
Stamford twp.....	8 "	26,172.56			
Stouffville.....	6 "	3,986.05			

NIAGARA SYSTEM—Continued

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds, provided out of other revenues of the system and interest allowed thereon to
October 31, 1929

Rural power district	Period of years ending Oct. 31, 1929	Amount	Rural power district	Period of years ending Oct. 31, 1929	Amount
		\$ c.			\$ c.
Acton R.P.D.—Esquesing twp.....	2 years	38.23	Chippawa R.P.D.—Wilmingtonby and Bertie twps..	8 years	3,514.03
Alvinston R.P.D.—Brooke twp.....	1 "	10.25	Clinton R.P.D.—Goderich, Stanley, Tuckersmith and Hay twps.....	2 "	675.30
Amherstburg R.P.D.—Anderdon, Malden, Colchester N. and Colchester S. twps.....	6 "	12,556.89	Delaware R.P.D.—Delaware, Westminster, Caradoc, Ekfrid, Lobo and London twps.....	7 "	5,520.63
Aylmer R.P.D.—Dorchester S., Malahide, Yarmouth, Bayham and Dorchester N. twps.....	8 "	4,556.98	Dorchester R.P.D.—London, Missouri W., Missouri E., Oxford N., Dorchester N., Dorchester S., Westminster and Yarmouth twp.....	8 "	9,579.17
Ayr R.P.D.—Dumfries N., Dumfries S. and Blenheim twps.....	4 "	343.32	Dresden R.P.D.—Camden and Chatham Gore twps.	2 "	28.60
Baden R.P.D.—Wilmot, Zorra E., Easthope S., Easthope N., Wellesley, Waterloo and Blenheim twps.....	8 "	4,347.96	Drumbo R.P.D.—Blenheim, Burford and Blandford twps.....	8 "	2,328.53
Beamsville R.P.D.—Grimsby N., Grimsby S., Caister, Gainsboro, Clinton and Louth twps.....	7 "	15,155.79	Dundas R.P.D.—Flamboro W., Beverly, Ancaster, Flamboro E. and Nelson twps.....	8 "	7,946.89
Belle River R.P.D.—Maidstone and Rochester twps.	7 "	5,742.53	Dunnville R.P.D.—Moulton twp.....	2 "	35.00
Blenheim R.P.D.—Raleigh and Harwich twps..	6 "	2,020.48	Dutton R.P.D.—Dunwich and Aldboro twps.....	4 "	575.73
Bond Lake R.P.D.—King, Vaughan, Markham and Whitchurch twps.....	6 "	9,520.68	Elmira R.P.D.—Woolwich twp.....	4 "	416.28
Bothwell R.P.D.—Ekfrid Zone, Orford, Aldborough and Mara twps.....	6 "	2,162.61	Elora R.P.D.—Pilkington, Nichol, Garafraxa W. and Peel twps.....	4 "	1,798.21
Brampton R.P.D.—Chinguacousy and Toronto twps.....	6 "	1,237.59	Essex R.P.D.—Sandwich S., Maidstone, Rochester, Colchester N., Gosfield N. and Gosfield S. twps..	5 "	3,495.38
Brant R.P.D.—Brantford, Burford, Blenheim, Dumfries S., Onondaga and Oakland twps.....	8 "	5,622.06	Exeter R.P.D.—Hay, Stephen, Osborne, Tuckersmith, Biddulph and Bosanquet twps.....	7 "	4,850.48
Brigden R.P.D.—Moore and Sombra twps.....	3 "	729.57	Forest R.P.D.—Plympton, Warwick, Bosanquet, Williams W. and Adelaide twps.....	3 "	140.59
Burford R.P.D.—Burford, Brantford and Oakland twps.....	3 "	1,120.35	Galt R.P.D.—Dumfries N. and Dumfries S. twps....	8 "	2,220.39
Caledonia R.P.D.—Ancaster, Seneca, Glanford, Oneida, Binbrook, Caister and Barton twps.....	5 "	2,336.64	Georgetown R.P.D.—Esquesing and Chinguacousy twps.....	5 "	1,129.73
Chatham R.P.D.—Dover E., Chatham, Raleigh and Harwich twps.....	8 "	7,064.49	Goderich R.P.D.—Colborne and Goderich twps.	5 "	1,201.72

NIAGARA SYSTEM—Continued

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds, provided out of other revenues of the system and interest allowed thereon to
October 31, 1929

Rural power district	Period of years ending Oct. 31, 1929	Amount	Rural power district	Period of years ending Oct. 31, 1929	Amount
		\$ c.			\$ c.
Grantham R.P.D. —Grantham and Niagara twps.	5 years	9,981.99	Norwich R.P.D. —Norwich N., Norwich S., Dereham, Oxford E., Burford and Windham twps.	5 years	8,588.81
Guelph R.P.D. —Eramosa, Nassagaweya, Guelph and Puslinch twps.	5 "	1,763.20	Oil Springs R.P.D. —Enniskillen, Dawn and Brooke twps.	4 "	996.10
Hadlimand R.P.D. —Walpole, Rainham, Cayuga N. and Oneida twps.	5 "	809.50	Palmerston R.P.D. —Maryborough, Wallace and Minto twps.	3 "	50.84
Harrow R.P.D. —Colchester S. and Malden twps.	6 "	3,216.02	Petrolia R.P.D. —Plympton and Enniskillen twps.	7 "	309.20
Ingersoll R.P.D. —Dorchester N., Dereham, Oxford N., Nissouri E., Zorra W. and Oxford W. twps.	8 "	2,449.84	Preston R.P.D. —Waterloo, Puslinch, Dumfries N. and Woolwich twps.	8 "	14,269.05
Jordan R.P.D. —Louth, Thorold, Pelham and Grantham twps.	8 "	2,722.04	Ridgetown R.P.D. —Howard, Orford, Harwich, Aldborough and Rondeau Park twps.	8 "	6,274.19
Keswick R.P.D. —Georgina and Gwillimbury E. twps.	6 "	4,863.45	St. Jacobs R.P.D. —Welllesley and Woolwich twps.	7 "	4,567.06
Kingsville R.P.D. —Gosfield N., Gosfield S. and Mersea twps.	6 "	15,862.48	St. Marys R.P.D. —Fullarton, Usborne, Blanshard and Downie twps.	2 "	1,539.05
Listowel R.P.D. —Wallace and Elma twps.	3 "	1,185.50	St. Thomas R.P.D. —Southwold, Yarmouth, Westminster and Dunwich twps.	7 "	9,557.38
London R.P.D. —Westminster, Delaware and London twps.	7 "	22,620.49	Saltfleet R.P.D. —Saltfleet, Barton, Binbrook and Grimsby N. twps.	8 "	17,066.76
Lucan R.P.D. —Stephen, London, McGillivray and Biddulph twps.	4 "	1,054.68	Sandwich R.P.D. —Sandwich W., Sandwich E., Sandwich S., Maidstone, Anderdon and Colchester N. twps.	8 "	21,480.66
Lynden R.P.D. —Beverly, Ancaster, Brantford and Dumfries S. twps.	8 "	3,587.53	Sarnia R.P.D. —Sarnia, Moore and Plympton twps.	7 "	9,002.56
Markham R.P.D. —Markham, Scarboro, Pickering and Whitchurch twps.	7 "	4,453.60	Scarboro R.P.D. —Scarboro, Pickering and York N. twps.	6 "	2,519.94
Merlin R.P.D. —Romney, Tilbury E. and Raleigh twps.	1 "	705.56	Seaforth R.P.D. —Tuckersmith and McKillop twps.	2 "	507.87
Milton R.P.D. —Nassagaweya, Esquesing, Trafalgar and Nelson twps.	5 "	1,441.56	Simcoe R.P.D. —Woodhouse, Charlotteville, Windham and Townsend twps.	7 "	2,268.24
Milverton R.P.D. —Mornington twp.	3 "	507.88	Stamford R.P.D. —Stamford and Thorold twps.	8 "	2,626.19
Mitchell R.P.D. —Fullarton, Downie, Ellice, Logan and Elma twps.	4 "	2,233.59	Stratford R.P.D. —Ellice, Downie and Easthope N. twps.	6 "	4,193.24
Newmarket R.P.D. —Gwillimbury E., King, Whitchurch and Scott twps.	6 "	3,121.91			
Niagara R.P.D. —Niagara twp.	8 "	9,556.39			

NIAGARA SYSTEM—Continued

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds, provided out of other revenues of the system and interest allowed thereon to
October 31, 1929

Rural power district	Period of years ending Oct. 31, 1929	Amount	Rural power district	Period of years ending Oct. 31, 1929	Amount
		\$ c.			\$ c.
Strathroy R.P.D. —A de-laide, Metcalfe and Caradoc twps.	3 years	478.22	Walton R.P.D. —Wawanosh W., Wawanosh E., Morris, Gray, Hullett and McKillop twps.	5 years	1,102.59
Streetsville R.P.D. —Toronto, Trafalgar, Esquesing and Chinguacousy twps. .	7 "	2,458.79	Waterdown R.P.D. —Flamboro E., Flamboro W. and Nelson twps.	7 "	5,829.32
Tavistock R.P.D. —Easthope N., Easthope S. and Zorra E. twps.	7 "	2,292.77	Waterford R.P.D. —Windham and Townsend twps. .	6 "	1,663.76
Thamesville R.P.D. —Camden, Euphemia, Zone, Oxford, Howard, Chatham and Harwich twps.	2 "	712.48	Welland R.P.D. —Bertie, Pelham, Thorold, Crowland, Wainfleet and Humberstone twps.	8 "	24,077.31
Tilbury R.P.D. —Dover W., Tilbury E., Tilbury W. and Tilbury N. twps.	6 "	1,204.70	Woodbridge R.P.D. —Toronto, Vaughan, Etobicoke, Toronto Gore, Albion, King, Chinguacousy and York N. twps.	7 "	11,264.55
Tilsonburg R.P.D. —Norwich S., Bayham, Dorchester S., Malahide, Dereham, Middleton and Norwich N. twps.	6 "	9,727.47	Woodstock R.P.D. —Oxford W., Oxford N., Oxford E., Blenheim, Blandford, Zorra W. and Zorra E. twps.	8 "	11,260.96
Wallaceburg R.P.D. —Dover E., Chatham and Sombra twps.	7 "	5,200.20			\$14,172,354.72
Walsingham R.P.D. —Walsingham S. and Charlottetown twps.	3 "	1,163.85			

NIAGARA SYSTEM

Reserve for Sinking Fund, October 31, 1929

Total provision for sinking fund to October 31, 1928.....		\$11,974,361.22
Add:		
Additional sinking fund provided in respect of rural power districts in the year 1928.....	\$118.70	
Sinking fund provided on rural lines transferred to rural power districts.....	251.86	
		370.56
		<u>\$11,974,731.78</u>
Deduct:		
Sinking fund on certain equipment sold.....		19,550.12
		<u>\$11,955,181.66</u>
Provided in the year ending October 31, 1929, in respect of:		
Advances by the province for construction of transmission lines and stations.....	\$398,427.96	
Advances by the province for construction of rural power districts.....	36,330.90	
Advances by the province for construction of pipe line to Ontario Power generating station.....	36,923.85	
Advances by the province for construction of Queenston-Chippawa development.....	790,373.36	
Bonds issued and assumed by the Commission in connection with the purchase of the properties of the Ontario Power Company, Toronto Power Company, Essex System and Thorold system.....	476,127.83	
Interest at 4% per annum on amounts standing at the credit of the reserve accounts.....	478,989.16	
		<u>2,217,173.06</u>
		<u><u>\$14,172,354.72</u></u>

NIAGARA SYSTEM—RURAL LINES

Statement showing Interest, Sinking Fund, Renewals and Contingencies charged by the Commission to the Municipalities which operate the respective Rural Lines for the year ending October 31, 1929

Operated by	Capital cost	Interest	Sinking fund	Renewals	Contingencies	Total interest, sinking fund, renewals and contingencies charged
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Ancaster township.....	5,734.62	235.12	103.22	114.69	57.35	510.38
Brampton.....	588.87	32.62	10.60	11.78	5.89	60.89
Milton.....	15,909.84	789.13	286.38	318.20	159.10	1,552.81
Welland.....	19,617.60	823.94	353.12	392.35	196.18	1,765.59
Totals.....	41,850.93	1,880.81	753.32	837.02	418.52	3,889.67

NIAGARA SYSTEM—RURAL LINES

Statement showing the total Sinking Fund paid in respect of each line together with interest allowed thereon to October 31, 1929

Lines operated by	Period of years ending October 31, 1929	Amount
		\$ c.
Ancaster township.....	16 years	2,074.27
Brampton.....	12 "	162.62
Milton.....	16 "	1,894.69
Welland.....	17 "	7,790.67
Total.....		11,922.25

GEORGIAN BAY

Operating Account for Year

COSTS OF OPERATION AS PROVIDED FOR UNDER THE TERMS OF THE POWER COMMISSION ACT	
Power purchased.....	\$32,245.28
Costs of operation and maintenance, including the proportion of administrative expenses chargeable to the operation of the system:	
Generation and transmission equipment.....	\$298,170.77
Rural power districts.....	15,075.73
	313,246.50
Interest on capital investment in:	
Generation and transmission equipment.....	\$245,508.68
Rural power districts.....	9,601.45
	255,110.13
Provision for renewal of:	
Generation and transmission equipment.....	\$71,008.13
Rural power districts.....	7,566.59
	78,574.72
Provision for obsolescence and contingencies in respect of:	
Generation and transmission equipment.....	\$44,895.74
Rural power districts.....	7,566.59
	52,462.33
Provision for sinking fund:	
By charges included in the cost of power delivered to municipalities and rural power districts.....	\$52,118.91
By charges against contracts with private companies which purchase power.....	5,300.63
By charges included in the cost of distribution of power within rural power districts.....	2,221.80
	59,641.34
	<u>\$791,280.30</u>

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost (under the received by the Commission from each Municipality on account of such cost, upon ascertainment (by annual adjustment) of the actual cost of

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse- power supplied in year after cor- rection for power factor	Cost of power pur- chased	Share of operating costs		
	To Jan.1 1929	To Oct. 31 1929				Operating main- tenance and adminis- trative expenses	Interest	Renewals
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.	\$ c.
Alliston.....	70.00	60.00	85,219.11	177.2	279.49	3,114.65	3,685.79	1,323.80
Arthur.....	90.00	75.00	59,384.97	102.8	162.14	2,409.22	2,580.66	970.03
Barrie.....		30.00	401,525.91	1,804.2	2,845.73	22,203.04	16,541.10	4,210.23
Beaverton.....	40.00	38.00	52,470.28	218.0	343.85	3,008.17	2,160.25	587.66
Beeton.....	85.00	80.00	64,470.13	111.0	175.08	2,308.85	2,807.22	1,050.99
Bradford.....	84.00	65.00	73,931.30	138.2	217.98	3,053.02	3,211.09	1,182.37
Brechin.....	65.00	55.00	17,576.51	49.0	77.29	788.53	740.02	247.78
Cannington.....	45.00	44.00	37,128.83	138.5	218.45	2,047.80	1,539.84	449.31
Chatsworth.....	53.00	48.00	11,727.27	41.0	64.67	683.57	491.88	147.72
Chesley.....	45.00	43.00	115,453.16	386.8	610.09	5,722.59	4,871.95	1,490.04

SYSTEM

ending October 31st, 1929

REVENUE FOR PERIOD

Collected from municipalities.....	\$720,972.41	
Power sold to private companies.....	78,370.76	
Collected from customers in rural power districts.....	74,225.78	
		\$873,568.95

Add:

Amounts due by certain municipalities, being the difference between the sums paid and the cost of power supplied to them in the year.....	\$772.55	
Amounts due by municipalities comprising certain rural power districts, being the difference between the revenue collected from customers therein and the cost of power supplied to them in the year.....	1,013.14	
		1,785.69
		\$875,354.64

Deduct:

Amounts collected from certain municipalities in excess of the sums required to be paid by them for power supplied in the year..	\$78,403.76	
Amounts collected from customers in certain rural power districts in excess of the cost of power delivered thereto.....	5,670.98	
		84,074.34

Revenue.....	\$791,280.30	
		\$791,280.30

SYSTEM

COST OF POWER

Power Commission Act) of Power supplied to it by the Commission, the amount —and the amount remaining to be credited or charged to each Municipality power supplied to it in the year ending October 31, 1929.

and fixed charges		Total	Revenue received in excess of cost of power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Obsolescence and contingencies	Sinking fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
466.28	859.84	9,729.85	6.22	9,723.63	10,956.49	1,232.86	
300.99	605.20	7,028.24	3.61	7,024.63	7,982.61	957.98	
3,440.23	3,874.88	53,115.21	63.34	53,051.87	54,124.75	1,072.88	
429.26	509.76	7,038.95	7.65	7,031.30	8,346.22	1,314.92	
317.36	655.36	7,314.86	3.90	7,310.96	8,986.72	1,675.76	
388.25	749.53	8,802.24	4.85	8,797.39	9,451.62	654.23	
117.81	175.49	2,146.92	1.72	2,145.20	2,781.10	635.90	
287.81	363.85	4,907.06	4.86	4,902.20	6,116.08	1,213.88	
93.13	115.46	1,596.43	1.44	1,594.99	2,007.72	412.73	
829.68	1,140.00	14,664.35	13.58	14,650.77	16,777.69	2,126.92	

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost (under the received by the Commission from each Municipality on account of such cost, upon ascertainment (by annual adjustment) of the actual cost of

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating costs		
	To Jan. 1 1929	To Oct. 31 1929				Operating main-tenance and adminis-trative expenses	Interest	Renewals
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.	\$ c.
Coldwater.....	41.00	40.00	44,672.85	169.1	266.72	2,049.75	1,799.86	504.15
Collingwood.....		40.00	384,580.41	1,401.9	2,211.19	21,139.81	16,031.01	4,723.17
Cookstown.....	60.00	55.00	18,750.99	46.0	72.55	771.41	805.08	276.87
Creemore.....	60.00	58.00	37,869.82	99.3	156.62	1,840.04	1,617.95	547.13
Dundalk.....		40.00	38,332.21	166.4	262.46	2,299.16	1,584.42	414.30
Durham.....	35.00	33.00	116,067.58	523.7	826.02	6,473.84	4,783.66	1,212.44
Elmvale.....		36.00	38,412.24	153.5	242.11	2,293.64	1,585.99	443.22
Elmwood.....	52.00	50.00	14,921.05	45.6	71.92	782.48	635.16	201.85
Flesherton.....	50.00	45.00	21,712.58	77.2	121.77	1,242.48	911.98	236.94
Grand Valley...	65.00	60.00	41,537.04	99.0	156.15	1,876.91	1,786.59	621.11
Gravenhurst....		25.00	64,208.84	524.8		6,317.29	2,891.56	611.13
Hanover.....	38.00	37.00	244,744.97	941.4	1,484.85	11,316.66	10,189.79	2,901.54
Holstein.....		90.00	13,424.69	16.6	26.18	443.95	567.74	223.36
Huntsville.....			164,696.15	1,007.4	11.67	11,904.20	7,392.38	1,952.81
Kincardine.....	70.00	65.00	161,672.86	345.4	544.79	6,046.24	7,024.46	2,502.10
Kirkfield.....	65.00	60.00	9,295.54	21.3	33.60	321.95	399.81	140.81
Lucknow.....	75.00	70.00	85,591.77	169.7	267.66	3,425.31	3,644.66	1,314.35
Markdale.....	37.00	36.00	31,907.98	135.2	213.25	1,877.05	1,323.96	316.41
Meaford.....	45.00	42.00	111,495.13	351.7	554.73	4,212.81	4,585.37	1,412.61
Midland.....		26.00	770,906.10	3,707.3	5,847.45	37,601.56	31,411.87	7,512.36
Mount Forest...	48.00	45.00	87,835.76	307.6	485.17	4,073.13	3,686.69	1,105.39
Muskoka twp....			8,507.82	20.7	32.65	379.61	369.65	126.33
Neustadt.....		70.00	32,486.02	38.9	61.36	817.01	1,426.87	567.35
Orangeville.....	55.00	48.00	134,447.27	435.3	686.59	6,741.39	5,694.06	1,767.22
Owen Sound.....		30.00	636,190.94	2,967.9	4,681.21	33,525.68	26,168.74	6,439.01
Paisley.....	65.00	60.00	44,213.97	107.7	169.87	2,381.92	1,909.30	656.23
Penetanguishene.		35.00	137,243.12	536.7	846.53	5,817.00	5,640.70	1,600.38
Port McNicoll...		33.00	19,233.50	82.7	130.44	962.72	794.38	208.94
Port Perry.....	62.00	58.00	61,350.03	167.2	263.72	2,751.89	2,633.12	872.98
Priceville.....		85.00	6,815.42	12.7	20.03	425.66	297.48	109.43
Ripley.....	95.00	85.00	34,041.82	52.7	83.12	1,286.06	1,491.35	567.79
Shelburne.....	42.00	41.00	60,074.92	222.2	350.47	3,468.60	2,510.39	729.25
Stayner.....	45.00	44.00	35,555.33	134.5	212.14	2,379.76	1,475.87	426.31
Sunderland.....	65.00	63.00	22,138.32	54.2	85.49	1,004.59	937.78	328.01
Tara.....		93.00	34,809.44	54.8	86.44	1,108.14	1,520.61	579.22
Teeswater.....		58.00	45,503.99	100.2	158.04	1,860.50	1,967.10	697.91
Thornton.....		90.00	14,924.22	25.2	39.75	481.08	652.58	245.12
Tottenham.....		96.00	44,009.88	60.2	94.95	1,655.02	1,932.28	750.90
Uxbridge.....	65.00	60.00	64,374.61	168.7	266.09	3,010.82	2,768.19	930.28
Victoria Harbor.	45.00	42.00	18,959.01	67.0	105.68	957.95	793.73	237.07
Waubashene...	45.00	40.00	10,536.36	37.7	59.46	532.62	437.18	129.25
Wingham.....	71.00	65.00	179,158.99	368.4	581.07	5,819.33	7,793.70	2,803.10
Woodville.....	60.00	58.00	20,543.65	52.3	82.49	861.35	866.02	300.13

SYSTEM

COST OF POWER

Power Commission Act) of Power supplied to it by the Commission—the amount—and the amount remaining to be credited or charged to each Municipality power supplied to it in the year ending October 31, 1929

and fixed charges		Total	Revenue received in excess of cost of power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Obsolescence and contingencies	Sinking fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
352.68	420.85	5,394.01	5.94	5,388.07	6,792.11	1,404.04	.....
2,910.45	3,775.19	50,790.82	49.22	50,741.60	56,076.62	5,335.02	.....
117.66	188.05	2,231.62	1.62	2,230.00	2,573.61	343.61	.....
232.87	379.33	4,773.94	3.49	4,770.45	5,791.90	1,021.45	.....
328.87	371.06	5,260.27	5.84	5,254.43	6,656.98	1,402.55	.....
1,019.68	1,119.67	15,435.31	18.39	15,416.92	17,478.82	2,061.90	.....
315.61	374.43	5,255.00	5.39	5,249.61	5,527.50	277.89	.....
107.94	148.19	1,947.54	1.60	1,945.94	2,298.42	352.48	.....
190.72	213.52	2,917.41	2.71	2,914.70	3,538.97	624.27	.....
249.02	418.00	5,107.78	3.48	5,104.30	6,028.91	924.61	.....
721.21	676.12	11,217.31	18.43	11,198.88	13,119.70	1,920.82	.....
1,970.87	2,392.87	30,256.58	33.05	30,223.53	35,026.71	4,803.18	.....
55.79	132.85	1,449.87	0.58	1,449.29	1,493.25	43.96	.....
1,516.83	1,732.79	24,510.68	35.37	24,475.31	27,199.07	2,723.76	.....
901.12	1,634.80	18,653.51	12.13	18,641.38	22,730.63	4,089.25	.....
53.42	93.71	1,043.30	0.75	1,042.55	1,295.66	253.11	.....
460.15	847.97	9,960.10	5.96	9,954.14	12,036.38	2,082.24	.....
294.90	309.52	4,335.09	4.75	4,330.34	4,889.66	559.32	.....
760.30	1,066.98	12,592.80	12.35	12,580.45	14,963.67	2,383.22	.....
6,864.95	7,362.53	96,600.72	130.16	96,470.56	96,389.29	.....	81.27
50.64	85.54	1,044.42	0.73	1,043.69	1,309.65	265.96	.....
647.51	864.69	10,862.58	10.80	10,851.78	14,005.23	3,153.45	.....
137.37	334.46	3,344.42	1.36	3,343.06	2,651.78	.....	691.28
942.54	1,330.52	17,162.32	15.28	17,147.04	21,460.72	4,313.68	.....
5,615.31	6,117.86	82,547.81	104.22	82,443.59	89,038.18	6,594.59	.....
261.18	444.49	5,822.99	3.78	5,819.21	6,565.16	745.95	.....
1,086.91	1,335.88	16,327.40	18.84	16,308.56	18,784.27	2,475.71	.....
165.49	186.01	2,447.98	2.90	2,445.08	2,729.36	284.28	.....
382.84	613.29	7,517.84	5.87	7,511.97	9,812.01	2,300.04	.....
45.12	69.28	967.00	0.45	966.55	1,076.63	110.08	.....
162.85	347.37	3,938.54	1.85	3,936.69	4,577.10	640.41	.....
469.47	588.17	8,116.35	7.80	8,108.55	9,157.70	1,049.15	.....
276.08	348.07	5,118.23	4.72	5,113.51	5,943.13	829.62	.....
133.04	222.51	2,711.42	1.90	2,709.52	3,436.57	727.05	.....
167.92	355.32	3,817.65	1.92	3,815.73	5,099.48	1,283.75	.....
279.66	459.54	5,422.75	3.52	5,419.23	5,811.12	391.89	.....
80.81	152.21	1,651.55	0.88	1,650.67	2,269.50	618.83	.....
198.33	450.68	5,082.16	2.11	5,080.05	5,775.20	695.15	.....
392.44	644.84	8,012.66	5.92	8,006.74	10,292.24	2,285.50	.....
144.90	186.40	2,425.73	2.35	2,423.38	2,849.49	426.11	.....
85.18	102.70	1,346.39	1.32	1,345.07	1,539.69	194.62	.....
998.63	1,814.42	19,810.25	12.93	19,797.32	24,296.95	4,499.63	.....
124.98	206.09	2,441.06	1.84	2,439.22	3,052.39	613.17	.....

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost (under the received by the Commission from each Municipality on account of such cost, upon ascertainment (by annual adjustment) of the actual cost of

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating costs						
	To Jan. 1 1929	To Oct. 31 1929				Operating maintenance and administrative expenses	Interest	Renewals				
RURAL POWER DISTRICTS			\$	c.	\$	c.	\$	c.	\$	c.	\$	c.
Barrie R.P.D.—Vespra, Oro and Innisfil twps.			13,906.45	58.4	92.11	1,039.06	578.65	154.48				
Beaumaris R.P.D.—W o o d, Medora and Monck twps.			18,292.57	65.8	103.78	772.14	775.72	226.52				
Bradford R.P.D.—King twp.			641.95	1.2	1.89	24.30	28.14	10.27				
Buckskin R.P.D.—M a t c h e d a s h, Wood and Medora twps.			4,938.66	14.1	22.24	172.16	212.67	68.92				
Cannington No. 1, R.P.D.—Brock and Eldon twps.			5,652.05	17.3	27.29	251.38	239.50	76.41				
Cannington No. 2, R.P.D.—Brock twp.			6,914.48	20.5	32.33	310.42	293.19	94.88				
Chatsworth R.P.D.—Holland twp.			2,963.15	6.0	9.46	135.67	115.87	40.45				
Elmvale R.P.D.—Flos twp.			4,487.83	15.1	23.82	378.45	189.93	57.79				
Flesherton R.P.D.—A r t e m e s i a twp.			1,431.37	4.0	6.31	47.42	60.46	18.41				
Georgina R.P.D.—Georgina twp.			7,653.36	30.4	47.95	583.66	320.26	88.67				
Innisfil R.P.D.—Innisfil and Gwillimbury W. twps.			24,752.42	58.3	91.96	1,052.94	1,072.82	370.07				
Mariposa R.P.D.—Mariposa and Brock twps.			26,211.78	83.0	130.92	1,190.00	1,098.51	343.55				
Markdale R.P.D.—Artemesia twp.			111.96	0.5	0.79	15.06	3.47	1.05				
Nottawasaga R.P.D.—Nottawasaga twp.			7,584.32	25.9	40.85	427.57	316.12	96.85				
Orangeville R.P.D.—Garafraxa E. and Amaranth twps.			7,667.70	23.5	37.07	334.16	327.89	103.60				
Port Perry R.P.D.—Reach Cartwright and Scugog twps.			10,003.13	31.7	50.00	490.72	426.87	132.94				
Shelburne R.P.D.—Melancthon twp.			2,012.57	4.1	6.47	66.11	87.29	31.53				
Sparrow Lake R.P.D.—Rama, Orillia N., Morrison and Matchedash twps.			13,798.66	67.5	106.47	639.28	565.84	133.04				
Stayner R.P.D.—Nottawasaga Sunnidale and Flos twps.			24,176.30	82.9	130.76	1,188.77	1,017.11	307.99				
Tara R.P.D.—Derby, Keppel, Amabel and Arran twps.			14,954.20	38.0	59.94	576.66	647.37	218.48				
Uxbridge R.P.D.—Uxbridge and Reach twps.			9,615.05	26.1	41.17	454.36	409.55	134.72				
Walkerton Quarry R.P.D.—Brant twp.			683.76	1.5	2.37	91.19	28.98	10.49				
Wroxeter R.P.D.—Howick, Turnberry and Morris twps.			9,698.51	17.9	28.23	409.18	414.90	151.10				
Totals—Municipalities.			5,086,642.66	19,244.7	27,949.22	251,877.81	213,370.87	61,906.19				
Totals—Rural power districts.			218,152.23	693.7	1,094.18	10,650.66	9,231.11	2,872.21				
Totals—Companies.			605,038.12	2,030.0	3,201.88	35,642.30	22,906.70	6,229.73				
			5,909,833.01									
Non-operating capital.			131,814.21									
Grand Totals.			6,041,647.22	21,968.4	32,245.28	298,170.77	245,508.68	71,008.13				

SYSTEM

COST OF POWER

Power Commission Act) of Power supplied to it by the Commission—the amount—and the amount remaining to be credited or charged to each Municipality power supplied to it in the year ending October 31, 1929

and fixed charges		Total	Revenue received in excess of cost of power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Obsolescence and contingencies	Sinking fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
115.91	135.00	2,115.21	2.05	2,113.16	2,113.16	see page	203
149.27	179.74	2,207.17	2.31	2,204.86	2,204.86	"	"
3.37	6.51	74.48	0.04	74.44	74.44	"	"
37.32	49.24	562.55	0.50	562.05	562.05	"	"
38.48	56.13	689.19	0.61	688.58	688.58	"	"
46.25	68.79	845.86	0.72	845.14	845.14	"	"
18.43	26.81	346.69	0.21	346.48	346.48	"	"
34.84	44.30	729.13	0.53	728.60	728.60	"	"
11.41	14.29	158.30	0.14	158.16	158.16	"	"
61.54	74.63	1,176.71	1.07	1,175.64	1,175.64	"	"
149.53	248.43	2,985.75	2.05	2,983.70	2,983.70	"	"
185.01	257.16	3,205.15	2.91	3,202.24	3,202.24	"	"
1.08	1.08	22.53	0.02	22.51	22.51	"	"
56.17	74.79	1,012.35	0.91	1,011.44	1,011.44	"	"
52.94	76.14	931.80	0.83	930.97	930.97	"	"
68.04	99.13	1,267.70	1.11	1,266.59	1,266.59	"	"
11.90	20.37	223.67	0.14	223.53	223.53	"	"
129.46	132.09	1,706.18	2.37	1,703.81	1,703.81	"	"
181.47	238.35	3,064.45	2.91	3,061.54	3,061.54	"	"
92.09	149.96	1,744.50	1.33	1,743.17	1,743.17	"	"
60.04	94.92	1,194.76	0.92	1,193.84	1,193.84	"	"
4.41	6.90	144.34	0.05	144.29	144.29	"	"
52.25	96.01	1,151.67	0.63	1,151.04	1,151.04	"	"
38,945.04	49,968.14	644,017.27	(675.67)	643,341.60	720,972.41	78,403.36	772.55
1,561.21	2,150.77	27,560.14	(24.36)	27,535.78	27,535.78	.....	.....
4,389.49	5,300.63	77,670.73	700.03	78,370.76	78,370.76	.....	.....
44,895.74	57,419.54	749,248.14	.....	749,248.14	826,878.95	.....	.....

GEORGIAN BAY SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain districts or charged to annual adjustment) of the actual costs

District and municipalities comprised therein:	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to district as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
Barrie R.P.D.—Vestra, Oro and Innisfil twps.	29,663.47	14,831.74	14,831.73	2,113.16
Beaumaris R.P.D.—Wood, Medora and Monck twps.	42,761.40	21,380.70	21,380.70	2,204.86
Beeton R.P.D.—Tecumseh twp.	565.92	282.96	282.96	.....
Bradford R.P.D.—King twp.	1,171.79	585.89	585.90	74.44
Buckskin R.P.D.—Matchedash, Wood and Medora twps.	*3,498.27	.....	3,498.27	562.05
Cannington No. 1, R.P.D.—Brock and Eldon twps.	*6,300.83	2,813.22	3,487.61	688.58
Cannington No. 2, R.P.D.—Brock twp.	*8,468.48	3,680.87	4,787.61	845.14
Chatsworth R.P.D.—Holland twp.	1,362.42	681.21	681.21	346.48
Elmvale R.P.D.—Flos twp.	*1,509.05	622.20	886.85	728.60
Flesherton R.P.D.—Artemesia twp.	2,715.13	1,357.57	1,357.56	158.16
Georgina R.P.D.—Georgina twp.	17,336.91	8,668.46	8,668.45	1,175.64
Holstein R.P.D.—Agrement twp.	147.88	73.94	73.94	.....
Innisfil R.P.D.—Innisfil and Gwillim- bury twps.	45,835.89	22,917.95	22,917.94	2,983.70
Lucknow R.P.D.—Kinloss twp.	615.03	307.51	307.52	.....
Mariposa R.P.D.—Mariposa and Brock twps.	46,089.19	23,044.59	23,044.60	3,202.24
Markdale R.P.D.—Artemesia twp.	1,299.44	649.72	649.72	22.51
Meaford R.P.D.—St. Vincent twp.	1,272.15	636.07	636.08	.....
Neustadt R.P.D.—Bentinck twp.	513.09	256.54	256.55	.....
Nottawasaga R.P.D.—Nottawasaga twp.	15,825.86	7,912.93	7,912.93	1,011.44
Orangeville R.P.D.—Garafraxa E. and Amaranth twps.	13,277.84	6,638.92	6,638.92	930.97
Port Perry R.P.D.—Reach, Cartwright and Scugog twps.	*35,386.01	17,132.78	18,253.23	1,266.59
Ripley R.P.D.—Kinloss twp.	395.67	197.83	197.84	.....
Shelburne R.P.D.—Melancthon twp.	*4,263.12	1,851.41	2,411.71	223.53
Sparrow Lake R.P.D.—Rama, Orillia, N., Morrison and Matchedash twps.	43,575.11	21,787.56	21,787.55	1,703.81
Stayner R.P.D.—Nottawasaga, Sunni- dale and Flos twps.	*37,541.13	.....	37,541.13	3,061.54
Tara R.P.D.—Derby, Keppel, Amabel and Arran twps.	*26,938.56	13,282.51	13,656.05	1,743.17
Uxbridge R.P.D.—Uxbridge and Reach twps.	*23,437.46	11,438.58	11,998.88	1,193.84
Walkerton Quarry R.P.D.—Brant twp.	2,285.90	1,142.95	1,142.95	144.29
Wroxeter R.P.D.—Howick, Turnberry and Morris twps.	*29,769.18	14,478.46	15,290.72	1,151.04
	443,822.18		245,167.11	
Non-operating capital.	20,413.19		20,413.19	
Totals.	464,235.37	198,655.07	265,580.30	27,535.78

Note.—Items marked * include portions of transmission lines used for purposes of Rural districts.

RURAL POWER DISTRICTS

RURAL OPERATING

District, the revenues collected from (or charged to) customers within each district, the Municipalities comprising certain other districts upon ascertainment (by in the year ending October 31, 1929.

Distribution cost and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,270.77	544.31	478.46	478.46	125.95	5,011.11	4,860.30	.....	150.81
1,910.71	931.20	818.54	818.54	215.48	6,899.33	7,522.67	623.34	.....
1.64	12.83	11.31	11.31	2.98	40.07	40.07	.....	.....
6.58	7.20	6.33	6.33	1.66	102.54	81.15	.....	21.39
121.93	158.65	69.73	69.73	36.71	1,018.80	1,006.22	.....	12.58
250.43	158.56	125.89	125.89	36.69	1,386.04	1,596.31	210.27	.....
626.08	216.66	168.31	168.31	50.12	2,074.62	2,182.60	107.98	.....
93.29	23.09	20.30	20.30	5.34	508.80	654.21	145.41	.....
204.14	40.36	30.19	30.19	9.34	1,042.82	942.35	.....	100.47
103.58	61.78	54.31	54.31	14.30	446.44	483.48	37.04	.....
887.61	389.46	342.34	342.34	90.12	3,227.51	3,265.87	38.36	.....
0.41	1.96	1.72	1.72	0.45	6.26	6.26	.....	.....
1,083.30	790.65	694.99	694.99	182.96	6,430.59	7,068.11	637.52	.....
3.28	11.78	10.40	10.40	2.74	38.60	38.60	.....	.....
1,826.43	991.83	871.83	871.83	229.51	7,993.67	8,619.63	625.96	.....
28.91	29.57	25.99	25.99	6.84	139.81	172.50	32.69	.....
5.70	26.94	23.68	23.68	6.23	86.23	86.23	.....	.....
1.64	11.65	10.27	10.27	2.70	36.53	36.53	.....	.....
503.20	356.59	313.45	313.45	82.52	2,580.65	2,607.43	26.78	.....
175.69	302.11	265.56	265.56	69.91	2,009.80	1,714.73	.....	295.07
454.57	256.21	202.80	202.80	59.28	2,442.25	2,240.50	.....	201.75
3.28	8.92	7.91	7.91	2.08	30.10	30.10	.....	.....
158.25	108.39	84.07	84.07	25.08	683.39	729.25	45.86	.....
1,318.96	905.90	796.30	796.30	209.63	5,730.90	6,721.14	990.24	.....
1,753.16	1,595.00	701.01	701.01	369.08	8,180.80	9,611.13	1,430.33	.....
944.14	619.91	537.46	537.46	143.45	4,525.59	5,244.79	719.20	.....
710.63	485.36	415.43	415.43	112.32	3,333.01	3,154.70	.....	178.31
62.37	52.01	45.72	45.72	12.04	362.15	332.30	.....	29.85
565.05	502.57	432.29	432.29	116.29	3,199.53	3,176.62	.....	22.91
15,075.73	9,601.45	7,566.59	7,566.59	2,221.80	69,567.94	74,225.78	5,670.98	1,013.14

Net Credit..... \$4,657.84

GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power interest added during the year; also the net amount Credited or Charged October 31, 1929, and the accumulated amount standing as

Municipality	Date commenced operating	Net credit or charge at October 31, 1928		Cash receipts and payments on account of such credits and charges	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Alliston.....	June, 1918	3,043.19			3,043.19
Arthur.....	Dec., 1916	2,806.35			2,806.35
Barrie.....	April, 1913	3,623.79			3,623.79
Beaverton.....	Nov., 1914	1,145.48			1,145.48
Beeton.....	Aug., 1918	3,084.68			3,084.68
Bradford.....	Oct., 1918	4,093.35			4,093.35
Brechin.....	Jan., 1915	1,053.13			1,053.13
Cannington.....	Nov., 1914	750.85			750.85
Chatsworth.....	Dec., 1915	662.09			662.09
Chesley.....	July, 1916	3,171.57			3,171.57
Coldwater.....	Mar., 1913	756.07			756.07
Collingwood.....	Mar., 1913	3,837.79			3,837.79
Cookstown.....	May, 1918	570.56			570.56
Creemore.....	Nov., 1914	909.57			909.57
Dundalk.....	Dec., 1915	1,049.41			1,049.41
Durham.....	Dec., 1915	2,957.74			2,957.74
Elmvale.....	June, 1913	334.10			334.10
Elmwood.....	April, 1918	315.36			315.36
Flesherton.....	Dec., 1915	836.58			836.58
Grand Valley.....	Dec., 1916	1,147.12			1,147.12
Gravenhurst.....	Nov., 1915	1,287.77			1,287.77
Hanover.....	Sept., 1916	5,179.10			5,179.10
Holstein.....	May, 1916		4,403.83	400.00	
Huntsville.....	Sept., 1916	3,052.53			3,052.53
Kincardine.....	Mar., 1921	3,806.74			3,806.74
Kirkfield.....	June, 1920	219.07			219.07
Lucknow.....	Jan., 1921	1,940.11			1,940.11
Markdale.....	Mar., 1916	689.47			689.47
Meaford.....	Jan., 1924	2,793.02			2,793.02
Midland.....	July, 1911	9,310.91			9,310.91
Mount Forest.....	Dec., 1915	6,171.47			6,171.47
Muskoka twp.....	June, 1929				
Neustadt.....	Dec., 1918		400.74		
Orangeville.....	July, 1916	5,969.99			5,969.99
Owen Sound.....	Dec., 1915	7,610.25			7,610.25
Paisley.....	Sept., 1923	1,540.63			1,540.63
Penetanguishene.....	July, 1911	1,897.40			1,897.40
Port McNicoll.....	Jan., 1915	428.60			428.60
Port Perry.....	Sept., 1922	2,020.28			2,020.28
Priceville.....	Mar., 1920		224.73		
Ripley.....	Jan., 1921	1,050.42			1,050.42
Shelburne.....	July, 1916	1,585.22			1,585.22
Stayner.....	Oct., 1913	936.01			936.01
Sunderland.....	Mar., 1914	660.63			660.63
Tara.....	Feb., 1918		3,453.81	500.00	

SYSTEM

CREDIT OR CHARGE

supplied to it to October 31, 1928; the cash receipts and payments thereon, and to each Municipality in respect of power supplied in the year ending a Credit or Charge to each Municipality at October, 31, 1929

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1929		Accumulated amount standing as a credit or charge on October 31, 1929	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
56.81		1,232.86		1,289.67	
35.06		957.98		993.04	
47.66		1,072.88		1,120.54	
14.31		1,314.92		1,329.23	
38.54		1,675.76		1,714.30	
85.70		654.23		739.93	
13.16		635.90		649.06	
12.21		1,213.88		1,226.09	
13.13		412.73		425.86	
35.67		2,126.92		2,162.59	
12.67		1,404.04		1,416.71	
58.04		5,335.02		5,393.06	
8.32		343.61		351.93	
13.95		1,021.45		1,035.40	
12.56		1,402.55		1,415.11	
56.13		2,061.90		2,118.03	
7.84		277.89		285.73	
3.97		352.48		356.45	
15.51		624.27		639.78	
19.89		924.61		944.50	
16.13		1,920.82		1,936.95	
64.70		4,803.18		4,867.88	
	171.94	43.96			4,131.81
50.99		2,723.76		2,774.75	
54.89		4,089.25		4,144.14	
2.76		253.11		255.87	
24.45		2,082.24		2,106.69	
11.37		559.32		570.69	
49.11		2,383.22		2,432.33	
125.54			81.27	44.27	
115.22		3,153.45		3,268.67	
		265.96		265.96	
	16.03		691.28		1,108.05
74.58		4,313.68		4,388.26	
95.92		6,594.59		6,690.51	
23.47		745.95		769.42	
23.70		2,475.71		2,499.41	
5.35		284.28		289.63	
36.23		2,300.04		2,336.27	
	8.99	110.08			123.64
18.83		640.41		659.24	
19.80		1,049.15		1,068.95	
12.39		829.62		842.01	
9.78		727.05		736.83	
	123.63	1,283.75			1,793.69

GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power added during the year; also the net amount Credited or Charged to each Municipality accumulated amount standing as a Credit or

Municipality	Date commenced operating	Net credit or charge at October 31, 1928		Cash receipts and payments on account of such credits and charges	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Teeswater.....	Dec., 1920	1,091.15			1,091.15
Thornton.....	Nov., 1918		108.12		
Tottenham.....	Oct., 1918		2,665.27	665.27	
Uxbridge.....	Sept., 1922	2,238.18			2,238.18
Victoria Harbor.....	July, 1914	739.99			739.99
Waubashene.....	Dec., 1914	546.61			546.61
Wingham.....	Dec., 1920	3,244.22			3,244.22
Woodville.....	Nov., 1914	556.37			556.37
RURAL POWER DISTRICTS					
Barrie R.P.D.—Vespra, Oro and Innisfil twps.....	Aug., 1923	1,038.90			
Beaumaris R.P.D.—Wood, Medora and Monck twps.....	June, 1928		787.07		
Beeton R.P.D.—Tecumseh twp..	Sept., 1926		11.04	11.48	
Bradford R.P.D.—King twp....	Aug., 1929				
Buckskin R.P.D.—Matchedash, Wood and Medora twps.....	July, 1928		261.52		
Cannington No. 1—R.P.D.—Brock and Eldon twps.....	May, 1924	331.08			
Cannington No. 2, R.P.D.—Brock twp.....	May, 1924	533.51			
Chatsworth R. P. D.—Holland twp.....	Dec., 1928				
Elmvale R.P.D.—Flos twp.....	Jan., 1924	203.32			
Flesherton R.P.D. — Artemesia twp.....	Feb., 1922		410.23		
Georgina R.P.D.—Georgina twp.	Oct., 1926		807.73		
Innisfil R.P.D.—Innisfil and Gwillimbury twps.....	Feb., 1928		141.62		
Lucknow R.P.D.—Kinloss twp..	Feb., 1924		10.14	10.55	
Mariposa R.P.D.—Mariposa and Brock twps.....	Sept., 1923	1,953.81			
Markdale R.P.D. — Artemesia twp.....	July, 1924		442.32		
Neustadt R.P.D.—Bentinck twp.	Nov., 1926		10.19	10.60	
Nottawasaga R.P.D.—Nottawasaga twp.....	Jan., 1922	849.20			
Orangeville R.P.D.—Garafraxa E. and Amaranth twps.....	Aug., 1927		549.69		
Port Perry R.P.D.—Reach, Cartwright and Scugog twps.....	Dec., 1922	83.41			
Ripley R.P.D.—Kinloss twp....	Feb., 1922		16.13	16.78	

SYSTEM

CREDIT OR CHARGE

supplied to it to October 31, 1928; the cash receipts and payments thereon, and interest cipality in respect of power supplied in the year ending October 31, 1929 and the Charge to each Municipality at October 31, 1929.

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1929		Accumulated amount standing as a credit or charge on October 31, 1929	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
13.98		391.89		405.87	
	4.32	618.83		506.39	
	88.75	695.15			1,393.60
27.96		2,285.50		2,313.46	
9.58		426.11		435.69	
11.43		194.62		206.05	
40.53		4,499.63		4,540.16	
6.95		613.17		620.12	
41.56			150.81	929.65	
	31.48	623.34			195.21
	.44		21.39		21.39
	10.46		12.58		284.56
13.24		210.27		554.59	
21.34		107.98		662.83	
		145.41		145.41	
8.13			100.47	110.98	
	16.41	37.04			389.60
	32.31	38.36			801.68
	5.66	637.52		490.24	
	0.41				
78.15		625.96		2,657.92	
	17.69	32.69			427.32
	0.41				
33.97		26.78		909.95	
	21.99		295.07		866.75
3.34			201.75		115.00
	0.65				

GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power added during the year; also the net amount Credited or Charged to each Municipality accumulated amount standing as a Credit or

Municipality	Date commenced operating	Net credit or charge at October 31, 1928		Cash receipts and payments on account of such credits and charges	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Shelburne R.P.D.—Melancthon twp.	Feb., 1926		80.57		
Sparrow Lake R.P.D.—Rama, Orillia N., Morrison and Matchedash twps.	Oct., 1925	1,719.85			
Stayner R. P. D.—Nottawasaga, Sunnidale and Flos twps.	July, 1923	3,324.33			
Tara R.P.D.—Derby, Keppel, Amabel and Arran twps.	Jan., 1925	214.39			
Uxbridge R.P.D.—Uxbridge and Reach twps.	Sept., 1925	204.05			
Walkerton Quarry R.P.D. — Brant twp.	Feb., 1922	71.76			
Wroxeter R.P.D.—Howick, Turnberry and Morris twps.	Feb., 1929				
Totals.....		113,242.53	14,784.75	1,614.68	102,714.92

GEORGIAN BAY SYSTEM

Reserve for Renewals, October 31, 1929

Total provision for renewals to October 31, 1928.....	\$853,439.16
Deduct:	
Expenditures to October 31, 1928.....	82,466.91
Balance brought forward October 31, 1928.....	\$770,972.25
Added during the year ending October 31, 1929:	
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them.....	\$64,778.40
Amount included in costs of distribution of power within rural power districts.....	7,566.59
Provision against equipment employed in respect of contracts with private companies which purchased power.....	6,229.73
Renewals reserve provided on second-hand equipment purchased	11.74
Interest at 4% per annum on monthly balances at the credit of the account.....	30,839.36
	109,425.82
	\$880,398.07
Deduct:	
Expenditures during the year ending October 31, 1929.....	959.74
Balance carried forward October 31, 1929.....	\$879,438.33

SYSTEM

CREDIT OR CHARGE

supplied to it to October 31, 1928; the cash receipts and payments thereon, and interest cipality in respect of power supplied in the year ending October 31, 1929 and the Charge to each Municipality at October 31, 1929.

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1929		Accumulated amount standing as a credit or charge on October 31, 1929	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
	3.22	45.86			37.93
68.79		990.24		2,778.88	
132.97		1,430.33		4,887.63	
8.58		719.20		942.17	
8.16			178.31	33.90	
2.87			29.85	44.78	
			22.91		22.91
1,927.87	554.79	84,074.34	1,785.69	92,732.41	11,713.14

GEORGIAN BAY SYSTEM

Reserve for Obsolescence and Contingencies, October 31, 1929

Balance brought forward October 31, 1928..... \$218,453.26

Added during the year ending October 31, 1929:

Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them.....	\$40,506.25	
Amounts included in the costs of distribution of power within rural power districts.....	7,566.59	
Provision against equipment employed in respect of contracts with private companies which purchased power.....	4,389.49	
Interest at 4% per annum on monthly balances at the credit of the account.....	8,738.13	
		61,200.46
		<u>\$279,653.72</u>

Deduct:

Expenditures during the year ending October 31, 1929..... 8,956.76

Balance carried forward October 31st, 1929..... \$270,696.96

GEORGIAN BAY SYSTEM

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with its proportionate share of other Sinking Funds, provided out of other revenues of the system, and interest allowed thereon to
October 31, 1929

Municipality	Period of years ending Oct. 31, 1929	Amount	Municipality	Period of years ending Oct. 31, 1929	Amount
		\$ c.			\$ c.
Alliston.....	6 years	5,981.93	Uxbridge.....	5 years	3,815.01
Arthur.....	8 "	6,501.29	Victoria Harbour.....	10 "	2,197.20
Barrie.....	11 "	38,877.85	Waubashene.....	10 "	1,236.48
Beaverton.....	10 "	7,786.49	Wingham.....	5 "	9,914.92
Beeton.....	6 "	4,901.70	Woodville.....	10 "	4,376.75
Bradford.....	6 "	5,522.74	RURAL POWER DISTRICT		
Brechin.....	10 "	3,291.21	Barrie R.P.D.—Vespra, Oro and		
Cannington.....	10 "	5,905.35	Innisfil twps.....	7 "	1,082.32
Chatsworth.....	9 "	1,319.91	Beaumaris R.P.D.—Wood, Medora		
Chesley.....	8 "	10,466.03	and Monck twps.....	2 "	587.18
Coldwater.....	11 "	3,653.48	Beeton R.P.D.—Tecumseh twp.....	4 "	9.94
Collingwood.....	11 "	52,080.68	Bradford—King twp.....	1 "	8.49
Cookstown.....	6 "	1,480.11	Buckskin R.P.D.—Matchedash,		
Creemore.....	10 "	4,010.90	Wood and Medora twps.....	2 "	113.40
Dundalk.....	9 "	3,649.56	Cannington No. 1, R.P.D.—Brock		
Durham.....	9 "	10,555.57	and Eldon twps.....	6 "	614.24
Elmvale.....	11 "	5,842.01	Cannington No. 2, R.P.D.—Brock		
Elmwood.....	6 "	1,044.13	twp.....	6 "	818.21
Flesherton.....	9 "	2,051.03	Chatsworth R.P.D.—Holland twp...	1 "	33.75
Grand Valley...	8 "	3,794.52	Elmvale R.P.D.—Flos twp.....	6 "	316.38
Gravenhurst....	9 "	5,938.63	Flesherton R.P.D.—Artemesia twp..	8 "	247.97
Hanover.....	8 "	28,174.39	Georgina R.P.D.—Georgina twp....	4 "	551.44
Holstein.....	8 "	1,217.28	Holstein R.P.D.—Agremont twp....	1 "	0.45
Huntsville.....	8 "	18,218.66	Innisfil R.P.D.—Innisfil and Gwil-		
Kincardine.....	5 "	8,548.97	limbury twps.....	2 "	575.84
Kirkfield.....	5 "	974.01	Lucknow R.P.D.—Kinloss twp.....	4 "	13.25
Lucknow.....	5 "	4,251.15	Mariposa R.P.D.—Mariposa and		
Markdale.....	8 "	2,651.06	Brock twps.....	7 "	2,676.84
Meaford.....	5 "	5,485.57	Markdale R.P.D.—Artemesia twp...	6 "	211.74
Midland.....	11 "	76,875.64	Meaford R.P.D.—St. Vincent twp...	0 "	6.23
Mount Forest...	9 "	9,413.04	Neustadt R.P.D.—Bentinck twp....	3 "	8.38
Muskoka twp...	1 "	91.04	Nottawasaga R.P.D.—Nottawasaga		
Neustadt.....	6 "	3,472.70	twp.....	8 "	1,365.13
Orangeville.....	8 "	10,877.79	Orangeville R.P.D.—Garafraxa E.		
Owen Sound....	9 "	52,484.69	and Amaranth twps.....	3 "	346.62
Paisley.....	5 "	2,427.10	Port Perry R.P.D.—Reach, Cart-		
Penetanguishene	13 "	23,840.65	wright and Scugog twps.....	7 "	421.21
Port McNicoll...	10 "	1,810.27	Ripley R.P.D.—Kinloss twp.....	4 "	15.11
Port Perry.....	5 "	3,567.90	Shelburne R.P.D.—Melancthon twp.	4 "	170.50
Priceville.....	5 "	399.12	Sparrow Lake R.P.D.—Rama, Orillia		
Ripley.....	5 "	2,023.11	N., Morrison and Matchedash twps.	5 "	1,200.16
Shelburne.....	8 "	5,951.65	Stayner R.P.D.—Nottawasaga, Sun-		
Stayner.....	11 "	5,168.42	nidale and Flos twps.....	7 "	2,812.24
Sunderland.....	10 "	4,258.20	Tara R.P.D.—Derby, Keppel, Amabel		
Tara.....	6 "	2,893.54	and Arran twps.....	5 "	417.43
Teeswater.....	5 "	3,665.78	Uxbridge R.P.D.—Uxbridge and		
Thornton.....	6 "	1,039.59	Reach twps.....	5 "	323.26
Tottenham.....	6 "	3,058.25	Walkerton Quarry R.P.D.—Brant		
			twp.....	8 "	164.60
			Wroxeter R.P.D.—Howick, Turn-		
			berry and Morris twps.....	1 "	217.05
					504,364.41

GEORGIAN BAY SYSTEM

Reserve for Sinking Fund—October 31, 1929

Total provision for sinking fund to October 31, 1928..... \$427,618.34

Provided in the year ending October 31, 1929:

By charges included in the cost of power delivered to municipalities and rural power districts.....	\$52,118.91	
By charges included in the costs of distribution of power within rural power districts.....	2,221.80	
By charges against contracts with private companies which purchased power.....	5,300.63	
Interest at 4% per annum on the amount standing at the credit of the account.....	17,104.73	
		76,746.07
		<u>\$504,364.41</u>

GEORGIAN BAY RURAL LINES

Statement showing Interest, Sinking Fund, Renewals and Contingencies charged by the Commission to the Municipalities which operate the respective Rural Lines, for the year ending October 31, 1929

Operated by	Capital cost	Interest	Sinking fund	Renewals	Contingencies	Total interest, sinking fund, renewals and contingencies charged
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Brechin.....	922.02	48.22	16.60	18.44	9.22	92.48
Flesherton.....	1,885.41	105.77	33.94	37.71	18.85	196.27
Totals....	2,807.43	153.99	50.54	56.15	28.07	288.75

GEORGIAN BAY RURAL LINES

Statement showing the Sinking Fund paid in respect of each line, together with Interest allowed thereon to October 31, 1929

Lines operated by	Period of years ending October 31, 1929	Amount
Brechin.....	11 years	\$ c. 199.43
Flesherton.....	12 "	340.63
Total.....		<u>540.06</u>

EASTERN ONTARIO

Operating Account for Year

COSTS OF OPERATION AS PROVIDED UNDER THE TERMS OF THE POWER COMMISSION ACT

Power purchased.....		\$194,363.44
Costs of operation and maintenance, including the proportion of administrative expenses chargeable to the operation of the system:		
Generation, transmission and distribution equipment.....	\$854,212.21	
Rural power districts.....	42,239.93	
		<u>896,452.14</u>
Interest on capital investment in:		
Generation, transmission and distribution equipment.....	772,300.17	
Rural power districts.....	15,943.78	
		<u>788,243.95</u>
Provision for renewals of:		
Generation, transmission and distribution equipment.....	\$179,427.90	
Rural power districts.....	13,205.79	
		<u>192,633.69</u>
Provision for obsolescence and contingencies in respect of:		
Generation, transmission and distribution equipment.....	\$254,701.22	
Rural power districts.....	4,247.96	
		<u>258,949.18</u>
Provision for sinking funds:		
By charges included in the cost of power delivered to municipi- palities and rural power districts.....	\$69,513.92	
By charges against contracts with private companies which purchase power and local distribution systems.....	76,983.22	
By charges included in the cost of distribution of power within rural power districts.....	3,470.08	
		<u>149,967.22</u>
		<u><u>\$2,480,609.62</u></u>

SYSTEM

ending October 31, 1929

	REVENUE FOR PERIOD	
Collected from municipalities.....	\$ 946,289.16	
Power sold to private companies and local distribution systems.....	1,615,485.73	
Collected from customers in rural power districts.....	150,323.11	
		<u>\$2,712,098.00</u>
Add:		
Amounts due by certain municipalities being the difference between the sums paid and the cost of power supplied to them in the year.....	\$829.56	
Amounts due by municipalities comprising certain rural power districts, being the difference between the revenue collected from customers therein and the cost of power supplied them in the year.....	4,357.90	
		<u>5,187.46</u>
Deduct:		<u>\$2,717,285.46</u>
Amounts collected from certain municipalities in excess of the sums required to be paid by them for power supplied in the year.....	\$69,092.61	
Amounts collected from customers in certain rural power districts in excess of the cost of power delivered thereto.....	18,602.79	
		<u>87,695.40</u>
Revenue.....		<u>\$2,629,590.06</u>
Deduct:		
Profit from power sold to private companies and local distribu- tion systems, transferred to the credit of obsolescence and contingency reserve.....	148,980.44	
		<u><u>\$2,480,609.62</u></u>

EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the Cost (under the received by the Commission from each Municipality on account of such cost pality upon ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of Capital cost of system on which interest and fixed charges are payable	Average horse- power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1929	To Oct. 31 1929				Operating main- tenance and adminis- trative expenses	Interest
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Alexandria.....		60.00	121,751.20	225.3	685.05	2,570.78	5,824.13
Apple Hill.....		55.00	10,083.27	24.8	75.42	671.20	489.48
Athens.....		89.27	39,009.30	49.1	149.29	986.91	1,640.26
Belleville.....		32.00	381,794.96	1,850.3	5,626.01	16,217.06	18,014.58
Bloomfield.....	65.00	60.00	37,706.80	87.7	266.66	1,634.46	1,768.60
Brockville.....		30.00	371,565.14	1,861.8	5,660.97	18,908.07	17,548.85
Carleton Place...	50.00	40.00	202,422.80	884.7	2,690.01	7,001.91	9,801.46
Chesterville.....		40.00	70,603.48	240.8	732.17	2,925.93	3,332.09
Finch.....		74.00	24,144.99	49.0	148.99	785.89	1,163.03
Havelock.....	55.00	48.00	79,219.00	245.8	747.38	3,109.86	3,525.79
Kemptville.....	60.00	45.00	59,136.09	207.2	630.01	2,489.27	2,654.50
Lakefield.....	55.00	48.00	53,981.09	173.0	526.02	2,916.28	2,539.37
Lanark.....	80.00	60.00	19,795.01	51.1	155.37	654.24	971.43
Lancaster.....		97.00	31,542.65	35.8	108.85	562.72	1,513.83
Lindsay.....	44.00	40.00	395,426.57	1,476.2	4,488.52	21,823.46	18,642.02
Marmora.....	45.00	50.00	25,867.90	85.4	259.67	1,547.27	1,222.12
Martintown.....		55.00	7,094.13	21.9	66.59	348.93	338.38
Maxville.....		86.00	38,741.34	49.8	151.42	1,255.43	1,875.18
Norwood.....	44.00	40.00	32,036.25	131.3	399.23	1,653.25	1,401.33
Oshawa.....		34.00	1,879,153.39	7,802.9	23,725.42	78,343.92	88,173.86
Perth.....	50.00	40.00	167,353.41	784.4	2,385.05	6,680.96	8,088.65
Peterborough...	32.00	30.00	1,244,026.13	6,214.1	18,894.54	47,191.82	58,694.50
Pictou.....	50.00	48.00	248,977.69	699.2	2,125.98	9,277.63	11,675.93
Prescott.....		30.00	115,320.29	606.0	1,842.60	5,602.02	5,517.71
Russell.....	80.00	75.00	26,611.36	47.4	144.12	802.82	1,278.62
Smiths Falls.....	45.00	35.00	241,284.82	1,380.9	4,198.75	10,747.75	11,570.78
Warkworth.....	60.00	50.00	16,329.98	53.4	162.37	894.55	768.92
Wellington.....	55.00	50.00	42,939.51	128.8	391.63	1,783.58	2,013.84
Whitby.....		36.00	225,089.65	907.2	2,758.42	9,103.60	10,623.40
Williamsburg.....		55.00	9,248.67	34.8	105.82	517.48	437.94
Winchester.....		40.00	50,562.87	190.2	578.32	2,564.11	2,394.97
RURAL POWER DISTRICTS							
Apple Hill R.P.D.—Kenyon and Roxborough twps.....			10,403.25	25.9	78.75	461.26	507.38
Belleville R.P.D.—Sidney and Thurlow twps.....			31,221.70	151.5	460.65	1,320.64	1,473.16
Bowmanville R.P.D.—Darling- ton twp.....			1,095.70	4.6	13.99	45.02	51.27
Brockville R.P.D.—Elizabeth- town, Augusta and Yonge and Escott Rear twps.....			15,037.54	63.8	193.99	633.34	694.03
Campbellford R.P.D.—Raw- den and Seymour twps.....			11,211.97	56.1	170.58	379.01	529.01

SYSTEM

COST OF POWER

Power Commission Act) of Power supplied to it by the Commission, the amount—and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1929.

costs and fixed charges		Sinking fund	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,138.59	676.86	1,279.28	13,174.69	13,517.80	343.11	.....
172.52	69.72	107.70	1,586.04	1,363.05	.....	222.99
614.68	177.36	357.04	3,925.54	4,380.88	455.34	.....
3,455.60	8,195.31	3,998.67	55,507.23	59,209.86	3,702.63	.....
547.89	446.23	394.82	5,058.66	5,325.99	267.33	.....
4,996.26	3,855.73	3,897.42	54,867.30	55,855.42	988.12	.....
2,925.01	1,897.02	2,129.63	26,445.04	36,764.39	10,319.35	.....
1,095.50	572.16	740.64	9,398.49	9,633.12	234.63	.....
418.49	142.27	253.67	2,912.34	3,627.81	715.47	.....
941.87	1,161.13	785.39	10,271.42	12,109.07	1,837.65	.....
827.74	462.93	573.89	7,638.34	9,830.60	2,192.26	.....
687.56	824.18	565.76	8,059.17	8,525.20	466.03	.....
331.01	136.34	208.34	2,456.73	3,247.99	791.26	.....
583.65	140.28	331.65	3,240.98	3,468.53	227.55	.....
4,576.93	6,800.23	4,148.43	60,479.59	60,182.77	.....	296.82
326.02	414.34	272.24	4,041.66	4,188.29	146.63	.....
113.01	54.85	74.40	996.16	1,202.61	206.45	.....
716.30	185.33	411.01	4,594.67	4,284.92	.....	309.75
297.64	594.57	311.35	4,657.37	5,363.40	706.03	.....
19,257.67	35,242.27	19,601.83	264,344.97	265,299.45	954.48	.....
2,351.01	1,651.73	1,760.57	22,917.97	32,693.06	9,775.09	.....
10,835.49	27,156.06	13,023.90	175,796.31	188,522.35	12,726.04	.....
3,334.69	3,377.59	2,603.66	32,395.48	33,816.73	1,421.25	.....
1,537.49	1,256.30	1,221.85	16,977.97	18,181.00	1,203.03	.....
469.90	145.96	279.65	3,121.07	3,609.78	488.71	.....
3,071.94	2,764.74	2,537.67	34,891.63	50,568.37	15,676.74	.....
205.88	254.70	171.30	2,457.72	2,766.48	308.76	.....
555.90	622.14	448.87	5,815.96	6,570.18	754.22	.....
2,397.52	4,094.57	2,362.47	31,339.98	32,657.64	1,317.66	.....
139.27	85.21	97.01	1,382.73	1,915.79	533.06	.....
760.90	444.56	530.04	7,272.90	7,606.63	333.73	.....
177.62	71.12	111.14	1,407.27	1,407.27	see page	219
282.16	670.76	326.99	4,534.36	4,534.36	"	"
11.05	20.79	11.39	153.51	153.51	"	"
210.79	140.57	154.38	2,027.10	2,027.10	"	"
97.44	248.06	117.38	1,541.48	1,541.48	"	"

EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the Cost (under the received by the Commission from each Municipality on account of such cost pality upon ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates ^s per horsepower collected by Commission during year		Share of capital cost of system on which Interest and fixed charges are payable	Average horse- power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1929	To Oct. 31 1929				Operating main- tenance and adminis- trative expenses	Interest
			\$ c.		\$ c.	\$ c.	\$ c.
Chesterville R.P.D.—Winches- ter, Finch, Russell and Osna- bruck twps.			23,378.54	66.6	202.50	867.98	1,113.42
Cobourg R.P.D.—Alnwick, Hamilton and Haldimand twps			24,929.86	77.2	234.73	964.60	1,101.35
Colborne R.P.D.—Haldimand twp.			11,053.86	44.1	134.09	362.88	518.02
Kingston R.P.D.—Ernestown, Kingston, Loughboro and Pittsburg twps.			12,478.29	43.5	132.27	527.87	582.09
Lakefield R.P.D.—Smith twp..			118.92	0.6	1.82	4.45	5.61
Martintown R.P.D.—Charlot- tenburg and Lancaster twps..			18,612.26	52.1	158.41	456.92	885.92
Maxville R.P.D.—Kenyon twp.			276.77	0.7	2.13	12.43	13.54
Napanee R.P.D.—Richmond twp.			767.99	3.3	10.03	35.37	35.65
Newcastle R.P.D.—Clarke, Dar- lington and Manvers twps....			3,793.11	13.3	40.44	146.09	174.20
Norwood R.P.D.—Asphodel and Seymour twps.			871.99	2.9	8.82	34.46	38.66
Oshawa R.P.D.—Darlington, Pickering, East Whitby and Whitby twp.			82,746.52	344.2	1,046.57	3,457.27	3,883.80
Peterboro R.P.D.—Douro, North Monaghan, Otonabee and Smith twps.			82,112.04	406.3	1,235.39	3,454.32	3,873.93
Pickering R.P.D.—Pickering and Whitby twps.			24,397.40	98.5	299.50	958.96	1,153.99
Port Hope R.P.D.—Hope twp.			5,567.68	22.6	68.72	371.84	260.12
Prescott R.P.D.—Augusta and Edwardsburg twps.			14,683.84	69.0	209.80	844.16	677.22
Smiths Falls R.P.D.—Crosby S., Bastard and Burgess S., Yonge and Escott Rear and Montague twps.			9,205.54	18.2	55.34	164.39	251.56
Trenton R.P.D.—Murray and Sidney twps.			1,883.38	10.0	30.41	81.37	88.90
Warkworth R.P.D.—Percy twp.			233.18	1.0	3.04	14.51	10.99
Wellington R.P.D.—Amelias- burg, Hallowel and Hillier twps.			4,767.34	14.3	43.48	143.95	223.58
Williamsburg R.P.D.—Wil- liamsburg twp.			897.86	7.0	7.91	46.68	41.32
Totals—Municipalities.....			6,268,819.74	26,600.3	80,880.65	261,573.16	295,505.55
Totals—Rural power districts..			391,746.53	1,597.3	4,843.36	15,789.77	18,188.72
Totals—Companies.....			9,877,650.10	34,666.9	105,407.90	576,849.28	458,605.90
			16,538,216.37				
Non-operating capital.....			959,713.69				
Grand Totals.....			17,497,930.06	62,864.5	191,131.91	854,212.21	772,300.17

SYSTEM

COST OF POWER

Power Commission Act) of power supplied to it by the Commission, the amount—and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1929.

costs and fixed charges		Sinking fund	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
377.79	169.22	244.23	2,975.14	2,975.14	see page	219
288.14	377.04	245.31	3,211.17	3,211.17	"	"
117.23	203.81	115.21	1,451.24	1,451.24	"	"
148.83	203.55	129.59	1,724.20	1,724.20	"	"
1.02	2.62	1.24	16.76	16.76	"	"
303.55	134.82	195.27	2,134.89	2,134.89	"	"
4.71	1.91	2.96	37.68	37.68	"	"
7.66	14.87	7.94	111.52	111.52	"	"
43.02	62.98	38.77	505.50	505.50	"	"
9.86	13.55	8.62	113.97	113.97	"	"
847.06	1,554.35	863.39	11,652.44	11,652.44	"	"
723.93	1,779.44	859.70	11,926.71	11,926.71	"	"
260.56	446.19	256.64	3,375.84	3,375.84	"	"
57.80	103.65	57.84	919.97	919.97	"	"
197.30	148.62	150.84	2,227.94	2,227.94	"	"
79.22	45.76	53.83	650.10	650.10	"	"
15.07	43.60	19.72	279.07	279.07	"	"
2.40	4.57	2.45	37.96	37.96	"	"
61.72	69.17	49.87	591.77	591.77	"	"
13.85	12.73	9.07	131.56	131.56	"	"
70,683.93	103,902.67	65,480.15	878,026.11	946,289.16	69,092.61	829.56
4,339.78	6,543.75	4,033.77	53,739.15	53,739.15	.....	.....
104,404.19	144,254.80	76,983.22	1,466,505.29	1,615,485.73	148,980.44	*
179,427.90	254,701.22	146,497.14	2,398,270.55	2,615,514.04	.....	.....

*Transferred to credit of Obsolescence and Contingency Reserve.

EASTERN ONTARIO SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain districts or charged to (by annual adjustment) of the actual costs

District and municipalities comprised therein:	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
Apple Hill R.P.D. —Kenyon and Roxborough twps.	\$ c. *17,856.71	\$ c. 8,834.98	\$ c. 9,021.73	\$ c. 1,407.27
Belleville R.P.D. —Sidney and Thurlow twps.	*71,998.00	35,654.41	36,343.59	4,534.36
Bowmanville R.P.D. —Darlington twp	2,353.84	1,176.92	1,176.92	153.51
Brockville R.P.D. —Elizabethtown, Augusta and Yonge and Escott Rear twps.	*32,364.19	15,061.48	17,302.71	2,027.10
Campbellford R.P.D. —Rawden and Seymour twps.	23,588.90	11,794.45	11,794.45	1,541.48
Chesterville R.P.D. —Winchester, Finch, Russell and Osnabrock twps. .	*66,970.87	31,287.47	35,683.40	2,975.14
Cobourg R.P.D. —Alnwick, Hamilton and Haldimand twps.	112,360.48	56,180.24	56,180.24	3,211.17
Colborne R.P.D. —Haldimand twp. .	17,704.33	8,852.17	8,852.16	1,451.24
Kingston R.P.D. —Ernestown, Kingston, Loughborough and Pittsburg twps.	34,398.50	17,199.25	17,199.25	484.50
Lakefield R.P.D. —Smith twp.	*268.03	106.00	162.03	1,724.20
Martintown R.P.D. —Charlottenburg and Lancaster twps.	28,930.61	14,465.30	14,465.31	16.76
Maxville R.P.D. —Kenyon twp.	*1,578.11	695.67	882.44	2,134.89
Napanee R.P.D. —Richmond twp.	13,551.51	6,775.76	6,775.75	37.68
Newcastle R.P.D. —Clarke, Darlington and Manvers twps.	*7,721.77	3,440.65	4,281.12	111.52
North Bay R.P.D. —West Ferris twp. .	16,481.29	8,240.65	8,240.64	505.50
Norwood R.P.D. —Asphodel and Seymour twps.	9,278.51	4,639.25	4,639.26	2,616.05
Oshawa R.P.D. —Darlington, Pickering, East Whitby and Whitby twps. .	121,574.52	60,787.26	60,787.26	113.97
Peterborough R.P.D. —Douro, North Monaghan, Otonabee and Smith twps.	84,155.90	42,077.95	42,077.95	11,652.44
Pickering R.P.D. —Pickering and Whitby twps.	29,427.65	14,713.83	14,713.82	11,926.71
Port Hope R.P.D. —Hope twp.	16,536.07	8,268.03	8,268.04	3,375.84
Prescott R.P.D. —Augusta and Edwardsburg twps.	*48,208.28	24,045.11	24,163.17	919.97
Smith Falls R.P.D. —Crosby South, Bastard and Burgess South, Yonge and Escott Rear, and Montague twps. .	49,258.55	24,629.28	24,629.27	2,227.94
Trenton R.P.D. —Murray and Sidney twps.	2,471.68	1,235.84	1,235.84	650.10
Warkworth R.P.D. —Percy twp.	*2,546.89	1,226.75	1,320.14	279.07
Wellington R.P.D. —Ameliasburg, Hallowell and Hillier twps.	*360.58	78.25	282.33	37.96
Williamsburg R.P.D. —Williamsburg twp.	10,746.74	5,373.37	5,373.37	591.77
Non-operating capital.	822,692.51		415,852.19	
	79,046.18		79,046.18	
Totals.	901,738.69	406,840.32	494,898.37	56,970.68

Note items marked * include portions of transmission lines used for purposes of rural power districts.

RURAL POWER DISTRICTS

RURAL OPERATING

district, the revenues collected from (or charged to) customers within each district, the Municipalities comprising certain other districts upon ascertainment in the year ending October 31, 1929.

Distribution costs and fixed charges

Cost of operation, maintenance and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund	Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
							Credited	Charged
\$ c. 779.40	\$ c. 435.21	\$ c. 355.32	\$ c. 177.66	\$ c. 94.52	\$ c. 3,249.38	\$ c. 4,015.92	\$ c. 766.54	.....
5,270.58	1,019.00	851.93	210.89	228.69	12,115.45	14,483.69	2,368.24	.....
60.28	41.09	35.03	8.76	9.22	307.89	416.57	108.68	.....
4,083.66	752.55	583.52	291.76	163.45	7,902.04	5,991.74	.....	1,910.30
.586.93	382.14	325.78	81.44	85.76	3,003.53	2,779.66	.....	223.87
2,536.96	1,531.26	1,207.60	603.80	332.58	9,187.34	11,709.39	2,522.05	.....
3,201.22	2,266.54	1,932.26	483.07	508.67	11,602.93	11,136.34	.....	466.59
431.89	409.74	349.31	87.33	91.96	2,821.47	3,487.56	666.09	.....
2,359.59	754.33	643.08	160.77	169.29	6,295.76	5,882.96	.....	412.80
11.97	7.59	5.36	1.20	1.70	44.58	52.84	8.26	.....
1,225.96	688.92	568.38	284.19	149.62	5,051.96	6,807.78	1,755.82	.....
134.93	15.08	8.70	4.35	3.28	204.02	64.05	.....	139.97
233.46	83.68	71.34	17.83	18.78	536.61	524.43	.....	12.18
398.58	180.47	138.91	32.86	40.50	1,296.82	1,775.82	479.00	.....
798.24	316.31	269.66	67.41	.....	4,067.67	5,075.00	1,007.33	.....
67.99	65.60	55.93	13.98	14.72	332.19	341.08	8.89	.....
8,554.22	2,685.45	2,282.99	569.95	602.68	26,347.73	27,462.94	1,115.21	.....
4,523.06	1,793.96	1,529.38	382.34	402.61	20,558.06	24,199.62	3,641.56	.....
2,327.41	567.81	484.07	121.02	127.43	7,003.58	9,838.05	2,834.47	.....
236.43	378.61	322.77	80.69	84.97	2,023.44	2,501.91	478.47	.....
2,431.82	978.33	807.34	403.67	212.48	7,061.58	6,560.94	.....	500.64
1,252.04	251.13	100.00	50.00	52.65	2,355.92	1,693.63	.....	662.29
250.17	58.42	49.80	12.45	13.11	663.02	1,360.62	697.60	.....
6.26	7.83	4.82	0.97	1.76	59.60	88.56	28.96	.....
252.84	57.23	44.71	10.67	12.85	970.07	1,085.69	115.62	.....
224.04	215.50	177.80	88.90	46.80	1,015.58	986.32	.....	29.26
42,239.93	15,943.78	13,205.79	4,247.96	3,470.08	136,078.22	150,323.11	18,602.79	4,357.90

Net Credit..... \$14,244.89

EASTERN ONTARIO

Statement showing the net Credit or Charge to each Municipality in respect of power
ments made and interest added during the year—also the net amount
in the year ending October 31, 1929; and the accumulated amount

Municipality	Date commenced operating	Net credit or charge at October 31, 1928		Cash receipts and payments on account of such credits and charges, also adjust- ments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Alexandria.....	Jan., 1921		1,031.89	1,031.89	
Apple Hill.....	April, 1921	40.98			40.98
Athens.....	Jan., 1929				
Belleville.....	April, 1929				
Bloomfield.....	April, 1919	828.71			837.89
Brockville.....	April, 1915	3,799.29			3,799.29
Carleton Place.....	May, 1919	1,681.45			1,681.45
Chesterville.....	April, 1914	518.16			518.16
Finch.....	Feb., 1928		128.42	128.42	
Havelock.....	Feb., 1921	2,788.16			2,813.33
Kemptville.....	Dec., 1921	2,395.17			2,395.17
Lakefield.....	Aug., 1920	2,246.77			2,266.88
Lanark.....	Sept. 1921	767.63			767.63
Lancaster.....	May, 1921		9,198.77	875.63	
Lindsay.....	Mar., 1928	4,869.65			4,918.21
Marmora.....	Jan., 1921		403.84	406.85	
Martintown.....	May, 1921	104.49			104.49
Maxville.....	Feb., 1921		1,972.80	1,972.80	
Norwood.....	Feb., 1921	978.16			985.80
Oshawa.....	Feb., 1929				
Perth.....	Feb., 1919	3,555.48			3,555.48
Peterboro.....	Mar., 1913	21,576.55			21,748.33
Picton.....	April, 1919	2,496.01			2,519.26
Prescott.....	Dec., 1913	1,398.21			1,398.21
Russell.....	Feb., 1926	424.48			424.48
Smiths Falls.....	Sept., 1918	4,186.03			4,186.03
Warkworth.....	Oct., 1923	700.81			707.16
Wellington.....	April, 1919	1,380.48			1,391.59
Whitby.....	Jan., 1926	205.65			208.35
Williamsburg.....	April, 1915	162.31			162.31
Winchester.....	Jan., 1914		661.50	661.50	
RURAL POWER DISTRICTS					
Apple Hill R.P.D.—Kenyon and Roxborough twps.....	Nov., 1923	420.30			
Belleville R.P.D.—Sidney and Thurlow twps.....	Sept., 1927	4,984.90			
Bowmanville R.P.D.—Darling- ton twp.....	Jan., 1924		22.69		
Brockville R.P.D.—Elizabeth- town, Augusta, Yonge and Escott Rear twps.....	Nov., 1921	857.86			
Campbellford R.P.D.—Rawden and Seymour twps.....	Aug., 1924		28.42		

SYSTEM

CREDIT OR CHARGE

supplied to it to October 31, 1928; the cash receipts and payments thereon, adjust-
Credited or Charged to each municipality in respect of power supplied
standing as a Credit or Charge to each municipality at October 31, 1929

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1929		Accumulated amount standing as a credit or charge on October 31, 1929	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	14.47	343.11	.....	328.64	.....
0.53	.....	.....	222.99	.....	222.46
.....	.....	455.34	.....	455.34	.....
.....	.....	3,702.63	.....	3,702.63	.....
9.18	.....	267.33	.....	267.33	.....
54.96	.....	988.12	.....	1,043.08	.....
22.11	.....	10,319.35	.....	10,341.46	.....
6.81	.....	234.63	.....	241.44	.....
.....	3.29	715.47	.....	712.18	.....
25.17	.....	1,837.65	.....	1,837.65	.....
30.13	.....	2,192.26	.....	2,222.39	.....
20.11	.....	466.03	.....	466.03	.....
9.98	.....	791.26	.....	801.24	.....
.....	340.88	227.55	.....	.....	8,436.47
48.56	.....	.....	296.82	.....	296.82
.....	3.01	146.63	.....	146.63	.....
1.58	.....	206.45	.....	208.03	.....
.....	62.83	.....	309.75	.....	372.58
7.64	.....	706.03	.....	706.03	.....
.....	.....	954.48	.....	954.48	.....
44.42	.....	9,775.09	.....	9,819.51	.....
171.78	.....	12,726.04	.....	12,726.04	.....
23.25	.....	1,421.25	.....	1,421.25	.....
21.15	.....	1,203.03	.....	1,224.18	.....
4.56	.....	488.71	.....	493.27	.....
41.75	.....	15,676.74	.....	15,718.49	.....
6.35	.....	308.76	.....	308.76	.....
11.11	.....	754.22	.....	754.22	.....
2.70	.....	1,317.66	.....	1,317.66	.....
2.05	.....	533.06	.....	535.11	.....
.....	7.10	333.73	.....	326.63	.....
16.81	.....	766.54	.....	1,203.65	.....
199.40	.....	2,368.24	.....	7,552.54	.....
.....	0.91	108.68	.....	85.08	.....
34.31	.....	.....	1,910.30	.....	1,018.13
.....	1.14	.....	223.87	.....	253.43

EASTERN ONTARIO

Statement showing the net Credit or Charge to each Municipality in respect of power
ments made and interest added during the year—also the net amount
in the year ending October 31, 1929; and the accumulated amount

Municipality	Date commenced operating	Net credit or charge at October 31, 1928		Cash receipts and payments on account of such credits and charges, also adjust- ments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Chesterville R.P.D.—Winchester, Finch, Russell and Osnabruck twps.	Nov., 1921	796.76	.....	.....	53.24
Cobourg R.P.D.—Alnwick, Hamil- ton and Haldimand twps.	Feb., 1927	645.63	.....	.....	.....
Colborne R.P.D.—Haldimand twp.	Aug., 1925	1,204.86	.....	.....	.....
Kington R.P.D.—Ernestown, Kingston, Loughboro and Pitts- burg twps.	Jan., 1923	635.98	.....	.....	.....
Lakefield R.P.D.—Smith twp.	July, 1928	.....	21.48	.....	.....
Martintown R.P.D.—Charlotten- burg and Lancaster twps.	Jan., 1922	.....	2,352.56	.....	30.61
Maxville R.P.D.—Kenyon twp.	Dec., 1927	.....	19.55	.....	.....
Napanee R.P.D.—Richmond twp.	Nov., 1927	.....	115.99	.....	.....
Newcastle R.P.D.—Clarke, Dar- lington and Manvers twps.	Sept., 1927	.....	147.06	.....	.....
Norwood R.P.D.—Asphodel and Seymour twps.	Jan., 1929	.....	.....	.....	.....
Oshawa R.P.D.—Darlington, Pickering, East Whitby and Whitby twps.	April, 1918	14,029.68	.....	.....	.....
Peterboro R.P.D.—Douro, North Monaghan, Otonabee and Smith twps.	Jan., 1927	5,453.92	.....	.....	.....
Pickering R.P.D.—Pickering and Whitby twps.	Jan., 1926	2,987.34	.....	.....	.....
Port Hope R.P.D.—Hope twp.	Aug., 1927	.....	37.51	.....	.....
Prescott R.P.D.—Augusta and Edwardsburg twps.	June, 1922	.....	877.28	.....	.....
Smiths Falls R.P.D.—Crosby South, Bastard and Burgess S., Yonge and Escott Rear, and Montague twps.	May, 1929	.....	.....	.....	.....
Trenton R.P.D.—Murray and Sidney twps.	Jan., 1924	699.94	.....	.....	.....
Warkworth R.P.D.—Percy twp.	Nov., 1928	.....	.....	.....	.....
Wellington R.P.D.—Amelias- burg, Hallowell and Hillier twps.	Nov., 1925	136.74	.....	.....	.....
Williamsburg R.P.D.—Williams- burg twp.	Feb., 1923	.....	115.91	.....	.....
North Bay R.P.D.—West Ferris twp.	June, 1927	985.71	.....	.....	.....
	.....	90,944.25	17,135.67	5,077.09	57,514.33

SYSTEM

CREDIT OR CHARGE

supplied to it to October 31, 1928; the cash receipts and payments, thereon adjust-
Credited or Charged to each municipality in respect of power supplied
standing as a Credit or Charge to each municipality at October 31, 1929

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1929		Accumulated amount standing as a credit or charge on October 31, 1929	
Credited	Charged	Credited	Charged	Credit	Charge
\$	c.	\$	c.	\$	c.
30.10		2,522.05		3,295.67	
25.83			466.59	204.87	
48.19		666.09		1,919.14	
25.44			412.80	248.62	
	0.86	8.26			14.08
	94.62	1,755.82			721.97
	0.78		139.97		160.30
	4.64		12.18		132.81
	5.88	479.00		326.06	
		8.89		8.89	
561.18		1,115.21		15,706.07	
218.16		3,641.56		9,313.64	
119.49		2,834.47		5,941.30	
	1.50	478.47		439.46	
	35.09		500.64		1,413.01
			662.29		662.29
28.00		697.60		1,425.54	
		28.96		28.96	
5.47		115.62		257.83	
	4.64		29.26		149.81
39.43		1,007.33		2,032.47	
1,917.69	581.64	87,695.40	5,187.46	119,069.49	13,854.16

EASTERN ONTARIO SYSTEM

Reserve for Renewals, October 31, 1929

Total provision for renewals to October 31, 1928:

Central Ontario system.....	\$2,502,902.31	
St. Lawrence system.....	234,020.53	
Rideau system.....	120,874.66	
		<u>\$2,857,797.50</u>

Expenditures to October 31, 1928:

Central Ontario system.....	\$365,759.51	
St. Lawrence system.....	25,128.23	
Rideau system.....	2,551.86	
		<u>393,439.60</u>
		<u>\$2,464,357.90</u>

Balance brought forward at October 31, 1928—

Added during the year ending October 31, 1929:

Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them.....	\$75,023.71	
Amounts included in the costs of distribution of power within rural power districts.....	13,205.79	
Provision against equipment employed in respect of con- tracts with private companies, which purchased power, and local distribution systems.....	104,404.19	
Provision against equipment employed in respect of Camp- bellford Pulp Mill.....	1,051.20	
Reserve provided in respect of equipment transferred.....	1,163.00	
Interest at 4% per annum on the monthly balances at the credit of the account.....	85,733.05	
		<u>280,580.94</u>
		<u>\$2,744,938.84</u>

Deduct:

Expenditures during the year ending October 31, 1929.....	\$22,619.63	
Accumulated reserves for renewals in respect of local distribution systems sold to municipalities during the year.....	320,502.12	
		<u>343,121.75</u>

Balance carried forward, October 31, 1929.....\$2,401,817.09

EASTERN ONTARIO SYSTEM

Reserve for Obsolescence and Contingencies, October 31, 1929

Total provision for Obsolescence and Contingencies to October 31, 1928:

Central Ontario system.....	\$575,337.05
St. Lawrence system.....	82,208.43
Rideau system.....	86,345.64

\$743,891.12

Additional provision by appropriating surpluses in Central Ontario system, October 31, 1928.....

19,842.09

\$763,733.21

Deduct:

Appropriation to reduce the investment in undeveloped water power sites, local distribution systems, Bruton limits, Bancroft barking mill, Trenton and Napanee water works debentures and North Bay stand-by station.....

362,457.04Balance brought forward at October 31, 1928..... \$401,276.17

Added during the year ending October 31, 1929:

Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them.....

\$110,446.42

Amount included in the costs of distribution of power within rural power districts.....

4,247.96

Provision against equipment employed in respect of contracts with private companies, which purchased power, and local distribution system.....

144,254.80

Net profit from contracts with sundry power customers and from local distribution systems.....

148,980.44

Interest at 4% per annum on monthly balances at the credit of the account.....

17,253.70

425,183.32

\$826,459.49

Deduct:

Expenditures during the year ending October 31, 1929.....

\$52,795.46

Appropriation to reduce investment in Napanee steam plant and Crow River storage.....

26,705.04

79,500.50

Balance brought forward, October 31, 1929..... \$746,958.99

EASTERN ONTARIO SYSTEM

SINKING FUND

Statement showing Sinking Fund paid by each municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds, provided out of other revenues of the system and interest allowed thereon to
October 31, 1929

Municipality	Period of years ending Oct. 31, 1929	Amount	Rural Power District	Period of years ending Oct. 31, 1929	Amount
		\$ c.			\$ c.
Alexandria.....	5 years	10,174.70	Apple Hill R.P.D. —Kenyon and Roxborough twps.....	5 years	684.64
Apple Hill.....	5 "	944.92	Belleville R.P.D. —Sidney and Thurlow twps.....	1 "	969.29
Athens.....	1 "	491.09	Bowmanville R.P.D. —Darlington twp.....	1 "	33.17
Belleville.....	1 "	9,050.24	Brockville R.P.D. —Elizabethtown, Augusta, Yonge and Escott Rear twps.....	8 "	2,525.77
Bloomfield.....	1 "	634.25	Campbellford R.P.D. —Rawden and Seymour twps.....	1 "	356.30
Brockville.....	9 "	52,189.00	Chesterville R.P.D. —Winchester, Finch, Russell and Osnabruck twps.....	8 "	1,786.91
Carleton Place...	5 "	20,955.41	Cobourg R.P.D. —Alnwich, Hamilton and Haldimand twps.....	1 "	964.75
Chesterville.....	10 "	11,502.44	Colborne R.P.D. —Haldimand twp.	1 "	327.57
Finch.....	2 "	608.92	Kingston R.P.D. —Ernestown, Kingston, Loughboro and Pittsburg twps.....	1 "	417.64
Havelock.....	1 "	1,456.46	Lakefield R.P.D. —Smith twp....	1 "	4.58
Kemptville.....	5 "	4,881.14	Martintown R.P.D. —Charlottenburg and Lancaster twps.....	8 "	2,047.80
Lakefield.....	1 "	1,038.07	Maxville R.P.D. —Kenyon twp. ...	2 "	14.84
Lanark.....	5 "	1,589.45	Napanee R.P.D. —Richmond twp....	1 "	35.73
Lancaster.....	5 "	2,201.05	Newcastle R.P.D. —Clarke, Darlington and Manvers twps.....	1 "	115.59
Lindsay.....	1 "	8,178.65	Norwood R.P.D. —Asphodel and Seymour twps.....	1 "	31.26
Marmora.....	1 "	505.39	Oshawa R.P.D. —Darlington, Pickering, East Whitby and Whitby twps.....	1 "	2,405.79
Lakefield.....	5 "	564.75	Peterboro R.P.D. —Douro, North Monaghan, Otonabee and Smith twps.....	1 "	2,371.56
Maxville.....	5 "	2,832.95	Pickering R.P.D. —Pickering and Whitby twps.....	1 "	652.99
Norwood.....	1 "	669.82	Port Hope R.P.D. —Hope twp....	1 "	204.51
Oshawa.....	1 "	40,904.79	Prescott R.P.D. —Augusta and Edwardsburg twps.....	8 "	2,589.05
Perth.....	5 "	17,232.36	Smiths Falls R.P.D. —Crosby South, Bastard and Burgess S., Yonge and Escott Rear and Montague twps.....	1 "	156.17
Peterboro.....	1 "	29,989.22	Trenton R.P.D. —Murray and Sidney twps.....	1 "	60.13
Picton.....	1 "	4,512.57	Warkworth R.P.D. —Percy twp....	1 "	6.94
Prescott.....	10 "	13,424.53	Wellington R.P.D. —Ameliasburg, Hallowell and Hillier twps.....	1 "	101.76
Russell.....	4 "	1,331.82	Williamsburg R.P.D. —Williamsburg twp.....	5 "	110.79
Smiths Falls....	6 "	27,944.06			
Warkworth.....	1 "	317.09			
Wellington.....	1 "	800.51			
Whitby.....	1 "	4,839.24			
Williamsburg....	9 "	1,219.84			
Winchester.....	10 "	6,307.48			
					298,267.74

EASTERN ONTARIO SYSTEM

Reserve for Sinking Fund, October 31, 1929

Total provision for sinking fund to October 31, 1928..... \$142,596.65

Provided in the year ending October 31, 1929:

By charges included in the cost of power delivered to municipalities and rural power districts.....	\$69,513.92	
By charges included in the costs of distribution of power within rural power districts.....	3,470.08	
By charges against contracts with private companies which purchased power and local distribution systems.....	76,983.22	
Interest at 4% per annum on the amount standing at the credit of the account.....	5,703.87	
		155,671.09
		<u>\$298,267.74</u>

MADAWASKA PROPERTIES

Operating Account for the Five Months Ending October 31, 1929 (including Operations of the Galetta Electric Power and Milling Co. Limited)

COST OF OPERATION

Cost of operating and maintaining Generating plants, transmission lines, stations, rural lines and distribution systems, including rentals of water powers and the proportion of administrative expenses chargeable to the operation of the properties.....		\$25,769.41
Interest on bonds, etc.....	\$1,738.47	
Less Interest received on Investments.....	927.46	
		811.01
Net Operating Surplus for the five months carried to Appropriation Account.....		16,524.15
		<u>\$43,104.57</u>

REVENUE FOR PERIOD

Power sold to private companies.....	\$8,397.00	
Light and power sold to consumers on the two Distribution Systems and on the rural lines.....	34,497.61	
Net Profit on sale of equipment and supplies, etc.....	209.96	
		<u>\$43,104.57</u>

APPROPRIATION ACCOUNT

Amount paid to the Commission on account of interest on the investment in the properties.....	\$16,524.15
Net Operating Surplus for the five months ending October 31, 1929.....	<u>\$16,524.15</u>

NOTE.—For statement of Assets and Liabilities, Madawaska Properties, see page 238.

OTTAWA

Operating Account for Year

COSTS OF OPERATION AS PROVIDED FOR UNDER THE TERMS OF THE POWER COMMISSION ACT

Power purchased.....		\$246,231.96	
Costs of operation and maintenance, including the proportion of administrative expenses chargeable to the operation of the system:			
Transmission equipment.....	\$2,450.11		
Rural power district.....	7,523.21		
			9,973.32
Interest on capital investment in:			
Transmission equipment.....	\$910.72		
Rural power district.....	3,988.34		
			4,899.06
Provision for renewal of:			
Transmission equipment.....	\$381.52		
Rural power district.....	3,114.38		
			3,495.90
Provision for obsolescence and contingencies in respect of:			
Transmission equipment.....	\$58.37		
Rural power district.....	1,557.19		
			1,615.56
Provision for sinking fund:			
By charges included in the cost of power delivered to municipalities and Nepean rural power district.....	\$200.87		
By charges included in the cost of distribution of power within Nepean rural power district.....	862.62		
			1,063.49
			<u>\$267,279.29</u>

OTTAWA

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such ascertainment (by annual adjustment) of the actual cost of

Municipality	Interim rates per horse-power collected by Commission during year	Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of Operating maintenance and administrative expenses
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Ottawa.....	84.50	964.71	20,630.2	239,182.72	1,634.50
Richmond.....		11,534.65	34.1	716.94	362.59
RURAL POWER DISTRICT					
Nepean R.P.D.—Nepean, Goulburn, Gower N., Gloucester and Osgood twps....		8,035.95	301.5	6,332.30	453.02
Totals—Municipalities.....		12,499.36	20,664.3	239,899.66	1,997.09
Totals—Rural power district.....		8,035.95	301.5	6,332.30	453.02
		20,535.31			
Non-operating capital.....		430,951.80			
Grand totals.....		451,487.11	20,965.8	246,231.96	2,450.11

SYSTEM

ending October 31, 1929

REVENUE FOR PERIOD

Collected from municipalities.....	\$243,777.52	
Collected from customers in Nepean rural power district.....	26,928.28	
		\$270,705.80
Deduct:		
Amounts collected from municipality of Richmond in excess of the sum required to be paid for power supplied in the year	\$860.24	
Amounts collected from customers in Nepean rural power district in excess of the cost of power delivered thereto.....	2,566.27	
		3,426.51
Revenue.....		\$267,279.29

\$267,279.29

SYSTEM

COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount cost; and the amount remaining to be credited to each Municipality upon power supplied to it in the year ending October 31, 1929

operating costs and fixed charges				Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited to each municipality upon ascertainment of the actual cost of power by annual adjustment
Interest	Renewals	Obsolescence and contingencies	Sinking fund			Credited
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
45.91	19.29	.....	10.16	240,892.58	240,892.58	.....
561.58	230.73	31.38	121.48	2,024.70	2,884.94	860.24
303.23	131.50	26.99	69.23	7,316.27	7,316.27	.....
607.49	250.02	31.38	131.64	242,917.28	243,777.52	860.24
303.23	131.50	26.99	69.23	7,316.27	7,316.27	
910.72	381.52	58.37	200.87	250,233.55	251,093.79	

OTTAWA SYSTEM—

Statement showing the costs of distribution of power within Nepean rural power remaining to be credited to this district upon ascertainment (by annual

Rural power district and municipalities comprised therein	Total capital cost of this district, provincial government grant received and applied thereagainst, and the balance representing the investment by the Commission			Distribution	
	Total capital cost	Government grant	Commission's investment	Cost of power delivered to this district as shown on "cost of power" table preceding	Cost of operation maintenance and administration
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Nepean R.P.D.—Nepean, Goulburn, Gower N., Gloucester and Osgood twps.	*159,550.99	75,715.93	83,835.06	7,316.27	7,523.21
Non-operating capital ...	1,872.23	.....	1,872.23	.....	.....
	161,423.22	75,715.93	85,707.29	7,316.27	7,523.21

*Includes portion of transmission used for purposes of rural power district.

OTTAWA

Statement showing the net credit to each municipality in respect of power supplied to each Municipality in respect of power supplied during year ending to each Municipality at

Municipality	Date commenced operating	Net credit at October 31, 1928	Adjustments and payments made during the year
		Credit	Charged
Ottawa	Jan., 1914	\$ c.	\$ c.
Richmond	Aug., 1928	206.59	206.59
RURAL POWER DISTRICT			
Nepean R.P.D. — Nepean, Goulburn, Gower N., Gloucester and Osgood twps.	Feb., 1922	3,034.19	3,581.48
Totals .....	.....	3,240.78	3,788.07

RURAL POWER DISTRICT

RURAL OPERATING

district; the revenue collected from customers within this district; and the amount adjustment) of the actual costs in the year ending October 31, 1929

costs and fixed charges				Total cost	Revenue from power and light customers in each district	Amount remaining to be credited to Nepean rural power district
Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,988.34	3,114.28	1,557.19	862.62	24,362.01	26,928.28	2,566.27
3,988.34	3,114.38	1,557.19	862.62	24,362.01	26,928.28	2,566.27

SYSTEM

CREDIT OR CHARGE

to it to October 31, 1928; interest added during the year; also the net amount credited October 31, 1929, and the accumulated amount standing as a credit October 31, 1929

Interest at 4% per annum added during the year	Net amount credited in respect of power supplied in the year ending October 31, 1929	Accumulated amount standing as a credit on October 31, 1929
Credit	Credited	Credit
\$ c.	\$ c.	\$ c.
..... 2.58	..... 860.24	..... 862.82
119.80	2,566.27	2,138.78
122.38	3,426.51	3,001.60

OTTAWA SYSTEM

Reserve for Renewals, October 31, 1929

Total provision for renewals to October 31, 1928.....	\$9,931.23	
Deduct expenditures to October 31, 1928.....	699.10	
		<hr/>
Balance brought forward October 31, 1928		\$9,232.13
Added during the year ending October 31, 1929:		
Amount charged to the municipalities and Nepean rural power district as part of the cost of power delivered to them.....	\$381.52	
Amounts included in the costs of distribution of power to consumers within the Nepean rural power district.....	3,114.38	
Interest at 4% per annum on monthly balances at the credit of the account.....	369.29	
		<hr/>
		3,865.19
		<hr/>
		\$13,097.32
Deduct:		
Expenditures during the year ending October 31, 1929.....		22.17
		<hr/>
Balance carried forward October 31, 1929—.....		<u>\$13,075.15</u>

OTTAWA SYSTEM

Reserve for Obsolescence and Contingencies October 31, 1929

Total provision for contingencies to October 31, 1928.....	\$2,335.18	
Added during the year ending October 31, 1929:		
Amounts charged to municipalities of Richmond and Nepean rural power district as part of the cost of power delivered to them.....	\$58.37	
Amounts included in the costs of distribution of power to consumers within the Nepean rural power district.....	1,557.19	
Additional provision for obsolescence and contingencies in respect of Nepean rural power district.....	3,503.99	
Interest at 4% per annum on monthly balances at the credit of the account.....	93.41	
		<hr/>
		5,212.96
		<hr/>
Balance carried forward October 31, 1929.....		<u>\$7,548.14</u>

OTTAWA SYSTEM

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds, provided out of other revenues of the system and interest allowed thereon to
October 31, 1929

Municipality	Period of years ending October 31, 1929	Amount
Ottawa.....	14 years	\$ 189.21
Richmond.....	2 "	136.35
RURAL POWER DISTRICT		
Nepean R.P.D.—Nepean, Goulburn, Gower N., Gloucester and Osgoode twps.....	8 "	3,785.32
Total.....		4,110.88

OTTAWA SYSTEM

Reserve for Sinking Fund October 31, 1929

Total provision for sinking fund to October 31, 1918:.....	\$1,930.18
Provided in the year ending October 31, 1929:	
By charges included in the cost of power delivered to municipalities and rural power district.....	\$200.87
By charges included in the cost of distribution of power within rural power districts.....	\$62.62
Interest at 4% per annum on the amount standing at the credit of the account.....	117.24
	1,150.70
Balance carried forward October 31, 1929.....	\$4,110.88

THUNDER BAY

Operating Account for the Year

COSTS OF OPERATION AS PROVIDED FOR UNDER THE TERMS OF THE POWER COMMISSION ACT

Power purchased.....	\$3,161.50
Cost of operating and maintaining generating plants, transformer stations and transmission lines, including the proportion of administrative expenses chargeable to the operation of the system.....	191,903.99
Interest on capital investment.....	662,675.66
Provision for renewal of generating plants, transformer stations and transmission lines.....	109,200.41
Provision for obsolescence and contingencies.....	332,981.76
Provision for sinking fund:	
By charges included in the cost of power delivered to municipalities.....	\$97,290.79
By charges against contracts with private companies which purchased power.....	35,052.30
	<u>132,343.09</u>
	<u>\$1,432,266.41</u>

THUNDER BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost: upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year	Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
					Operation, maintenance and administrative expenses	Interest
	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Fort William.	21.00 plus certain transformation charges	1,881,110.07	9,718.9	461.29	28,825.68	99,008.10
Nipigon twp.	40.00	10,324.36	57.0	2.70	436.43	544.27
Port Arthur..	21.00 plus certain transformation charges	7,348,122.30	38,659.3	1,834.88	115,087.33	387,052.86
Totals—Municipalities.....		9,239,556.73	48,435.2	2,298.87	144,349.44	486,605.23
Totals—Companies.....		3,328,763.29	18,174.9	862.63	47,554.55	176,070.43
		12,568,320.02				
Non-operating capital.....		2,757,090.98				
Grand totals.....		15,325,411.00	66,610.1	3,161.50	191,903.99	662,675.66

SYSTEM

ending October 31, 1929

REFEENUE FOR PERIOD

Collected from municipalities.....	\$1,076,567.06
Power sold to private companies.....	377,513.60
	<u>\$1,454,080.66</u>

Deduct:

Amounts collected from certain municipalities in excess of the sum required to be paid by them for power supplied in the period.....	21,814.25
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Revenue.....	<u>\$1,432,266.41</u>
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\$1,432,266.41

SYSTEM

COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1929

costs and fixed charges		Sinking fund	Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
16,651.42	48,840.45	19,807.74	104.69	213,699.37	219,175.09	5,475.72	.....
88.78	285.20	108.72	0.61	1,466.71	2,281.03	814.32	.....
64,218.31	193,602.59	77,374.33	416.43	839,586.73	855,110.94	15,524.21	.....
80,958.51	242,728.24	97,290.79	521.73	1,054,752.81	1,076,567.06	21,814.25	.....
28,241.90	90,253.52	35,052.30	(521.73)	377,513.60	377,513.60	.....	.....
109,200.41	332,981.76	132,343.09	.....	1,432,266.41	1,454,080.66	.....	.....

THUNDER BAY

Statement showing the net credit or charge to each Municipality in respect of power
ments made and interest added during the year; also the net amount credited
ing October 31, 1929 and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1928		Cash receipts and payments on account of such credits and charges	
		Credit	Charge	Credited	Charged
Fort William.....	Oct., 1926	\$ c. 1,065.37	\$ c.	\$ c.	\$ c. 1,065.37
Nipigon twp.....	Jan., 1925	578.04	.....	.....	578.04
Port Arthur.....	Dec., 1910	.....	1,237.71	1,237.71	.....
Totals .....	.....	1,643.41	1,237.71	1,237.71	1,643.41

THUNDER BAY SYSTEM

Reserve for Renewals, October 31, 1929

Total provision for renewals to October 31, 1928.....	\$507,932.33
Deduct:	
Expenditures to October 31, 1928.....	1,954.42
Balance brought forward October 31, 1928.....	\$505,977.91
Added during the year ending October 31, 1929:	
Amounts charged to municipalities as part of the cost of power delivered to them.....	\$80,958.51
Provision against equipment employed in respect of contracts with private companies which purchased power.....	28,241.90
Interest at 4% per annum on monthly balances at the credit of the account.....	20,239.12
	129,439.53
	\$635,417.44
Deduct:	
Expenditures during the year ending October 31, 1929.....	170.58
Balance carried forward October 31, 1929.....	\$635,246.86

THUNDER BAY SYSTEM

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned
hereunder as part of the cost of power delivered thereto, together with
its proportionate share of other Sinking Funds, provided out of
other revenues of the system and interest allowed
thereon to October 31, 1929

Municipality	Period of years ending October 31, 1929	Amount
Fort William.....	3 years	\$ c. 88,294.17
Nipigon township.....	3 "	478.79
Port Arthur.....	3 "	321,016.92
		\$409,789.88

SYSTEM

CREDIT OR CHARGE

supplied to it to October 31, 1928, the cash receipts and payments thereon, and adjusted or charged to each Municipality in respect of power supplied in the year ended as a credit or charge to each Municipality at October 31, 1929

Interest at 4% per annum added during the year		Net amount credited in respect of power supplied in the year ending October 31, 1929	Accumulated amount standing as a credit on October 31, 1929
Credited	Charged	Credited	Credit
\$ c.	\$ c.	\$ c.	\$ c.
18.50	.....	5,475.72	5,494.22
9.23	.....	814.32	823.55
.....	19.94	15,524.21	15,504.27
27.73	19.94	21,814.25	21,822.04

THUNDER BAY SYSTEM

Reserve for Obsolescence and Contingencies, October 31, 1929

Balance brought forward October 31, 1928.....	\$181,251.96
Added during the year ending October 31, 1929:	
Amounts charged to municipalities as part of the cost of power delivered to them.....	\$242,728.24
Provision against equipment employed in respect of contracts with private companies which purchased power.....	90,253.52
Interest at 4% per annum on monthly balances at the credit of the account.....	7,250.08
	<u>340,231.84</u>
Balance carried forward October 31, 1929.....	\$521,483.80

THUNDER BAY SYSTEM

Reserve for Sinking Fund, October 31, 1929

Total provision for sinking fund to October 31, 1928.....	\$266,775.76
Provided in the year ending October 31, 1929:	
By charges included in the cost of power delivered to municipalities.....	\$97,290.79
By charges against contracts with private companies which purchased power.....	35,052.30
Interest at 4% per annum on the amount standing at the credit of the account.....	10,671.03
	<u>143,014.12</u>
Balance carried forward October 31, 1929.....	<u>\$409,789.88</u>

HYDRO-ELECTRIC POWER**Account with the Provincial Treasurer***NIAGARA AND*

November 1, 1928:		
Amount reassumed by the Province in respect of Bruton township limits.....	\$300,000.00	
May 31, 1929:		
Repayment to the Province of its investment in the Peterboro distributing system following the sale on November 1, 1928, of such distribution system to the city of Peterboro.....	470,938.16	
October 31, 1929:		
Cash returned to the Province in the year ending October 31, 1929, to cover the difference between the advances by the Province to the Commission and the capital expenditures made out of such advances by the Commission in the year ending October 31, 1928.....	515,798.23	
April 30, 1929:		
Paid on account of interest.....	\$4,017,912.54	
October 31, 1929:		
Cheque to cover balance of interest for year ending October 31, 1928.....	4,182,685.21	
		8,200,597.75
October 31, 1929:		
Payment under debt retirement plan.....	1,499,509.61	
October 31, 1929:		
Balance carried down.....	164,522,310.62	
		<u>\$175,509,154.37</u>

MADAWASKA PROPERTIES**(Including the Assets and Liabilities of the Galetta****ASSETS**

Real Estate, Water rights, buildings, plant, equipment, etc.....	\$1,872,573.78	
Investments—at market value.....	\$36,617.50	
Interest accrued thereon.....	516.25	
		37,133.75
Inventories:		
Stores.....	\$6,474.93	
Tools.....	878.37	
Utility Equipment.....	1,237.30	
Office Furniture.....	1,071.00	
		9,661.60
Accounts Receivable:		
Power and Light accounts.....	\$18,931.26	
Supply and other accounts.....	940.79	
	\$19,872.05	
Less: Reserve for Bad and Doubtful accounts.....	5,305.37	
		14,566.68
Cash in Bank.....		1,423.80
		<u>\$1,935,359.61</u>

NOTE.—For Operating Account, Madawaska Properties, see page 227.

COMMISSION OF ONTARIO

for the Year ending October 31, 1929

OTHER SYSTEMS

October 31, 1928:

Cash advances to date, Niagara and other systems.....\$145,030,680.86

Cash advances to date, Central Ontario and Nipissing
systems..... 15,473,235.21

\$160,503,916.07

Less repayments to that date under debt retirement plan.. 7,568,096.45

\$152,935,819.62

November 1, 1928, to October 31, 1929:

Sundry cash advances..... 14,372,737.00

October 31, 1929:

Interest for year on all cash advances..... \$8,576,155.46

Less—Interest credited by Province on repayments made
by Commission..... 375,557.71

8,200,597.75

\$175,509,154.37

November 1, 1929:

Total cash advances.....\$173,589,916.68

Less—Payments made under debt retirement plan..... 9,067,606.06

\$164,522,310.62

AND OTHER ASSETS

Electric Power & Milling Co. Limited) as at October 31, 1929

LIABILITIES

Investment, by the Commission.....\$1,864,647.32

Less Current account..... 9,817.88

\$1,854,829.44

First Mortgage 6% Bonds due February 1, 1930..... \$64,100.00

Interest accrued thereon..... 1,129.50

65,229.50

Current and Accrued Liabilities:

Accounts payable..... \$374.38

Dividends unpaid..... 9.00

Accrued charges and taxes..... 11,626.46

Reserve for Income Taxes..... 2,400.00

Reserve for unvouchered Accounts Payable..... 310.83

Reserve for retirement of 29 shares of capital stock outstanding
out of a total of 9,705 shares..... 580.00

15,300.67

\$1,935,359.61

SANDWICH, WINDSOR AND AMHERSTBURG RAILWAY

Operating Account for the Year Ending October 31, 1929

EXPENDITURE

Transportation expenses.....	\$358,361.51
Maintenance—way and structures.....	67,496.57
Maintenance—equipment.....	132,823.88
Power.....	119,013.49
Rental of motor buses.....	93,377.02
General operating and management expenses.....	68,492.41
Proportion of administrative and accounting expenses of the Commission chargeable to the operation of the railway.....	25,369.62
Taxes.....	5,390.75
Insurance—fire and liability.....	62,974.89
Written off valuation and other expenses re purchase of the railway by the Commission.....	1,779.54
Total operating expenses.....	\$935,079.68
Interest.....	261,490.61
Net surplus for the year before making provision for renewal of road and equipment.....	44,471.50
	<u>\$1,241,041.79</u>

REVENUE

Passenger.....	\$1,191,768.11
Freight and express.....	25,747.98
Miscellaneous.....	23,525.70
Total revenue.....	<u>\$1,241,041.79</u>

Appropriation Account

Debit balance brought forward from October 31, 1928.....	\$5,884.96
Balance set aside as a provision for renewal of road and equipment.....	38,586.54
	<u>\$44,471.50</u>
Net surplus for the year ending October 31, 1929, before making provision for renewal of road and equipment.....	\$44,471.50
	<u>\$44,471.50</u>

Reserve for Renewals, October 31, 1929

Total provision for renewals to October 31, 1928.....	\$204,025.63
Deduct:	
Expenditures to October 31, 1928.....	131,783.35
Balance brought forward October 31, 1928.....	\$72,242.28
Added during the year ending October 31, 1929:	
By appropriation for the year.....	\$38,586.54
Interest at 4 per cent. on the monthly balances to the credit of the account.....	2,921.01
	<u>41,507.55</u>
	<u>\$113,749.83</u>
Deduct:	
Expenditures during the year ending October 31, 1929.....	60,064.19
Balance carried forward October 31, 1929.....	<u>\$53,685.64</u>

GUELPH RADIAL RAILWAY

Operating Account for the Year Ending October 31, 1929

EXPENDITURE

Transportation expense.....	\$25,706.28	
Maintenance—way and structures.....	8,353.94	
Maintenance—equipment.....	18,811.01	
Electric power and motor fuel.....	11,777.29	
Rental of motor buses.....	151.60	
General operating and management expenses.....	8,371.36	
Proportion of administrative and accounting expenses of the Commission chargeable to the operation of the railway.....	2,543.89	
Insurance.....	4,160.12	
Taxes.....	1,348.28	
Written off valuation and other expenses, re purchase by the Commission.....	256.30	
		<u>\$81,480.07</u>
Interest.....		14,515.47
Provision for instalments payable to the city of Guelph on May 1, 1929, and November 1, 1929, under purchase agreement:		
Interest for year.....	\$4,711.03	
On account of principal.....	6,988.97	
		<u>11,700.00</u>
Provision for renewal of road and equipment.....		10,252.27
		<u><u>\$117,947.81</u></u>

REVENUE

Operating revenue.....	\$88,145.33
Net deficit for year after provision for instalments on account of principal and interest payable to the city of Guelph.....	29,802.48
	<u><u>\$117,947.81</u></u>

Reserve for Renewals, October 31, 1929

Total provision for renewals to October 31st, 1928.....	\$29,970.09
Deduct:	
Expenditures to October 31st, 1928.....	<u>1,611.62</u>
Balance brought forward October 31, 1928.....	\$28,358.47
Added during the year ending October 31, 1929:	
By appropriation for the year.....	\$10,252.27
Interest at 4 per cent. on the monthly balances to the credit of the account.....	<u>1,122.11</u>
	11,374.38
	<u>\$39,732.85</u>
Deduct:	
Expenditures during the year ending October 31, 1929.....	<u>7,158.77</u>
	<u><u>\$32,574.08</u></u>

APPROPRIATIONS, ADVANCES AND CAPITAL EXPENDITURES

For the year ended October 31, 1929

Appropriations made by the Legislature for the purposes of the Commission, Cash Advances by the Province to the Commission on account of such appropriations, and the Capital Expenditures made on each Undertaking and System by the Commission out of such Cash Advances in the Year Ending
October 31, 1929

NIAGARA SYSTEM

Appropriations by the Legislature and by special warrant:	
For power developments.....	\$2,515,000.00
For transmission lines, transformer stations and rural distribution systems.....	5,214,952.00
For eastern transmission lines and stations.....	3,679,745.00
	<u>\$11,409,697.00</u>
Cash advances to the Commission out of such appropriations and special warrant.....	\$7,538,856.00
Unexpended balance as at October 31, 1929, returnable to Province	819,314.48
	<u>\$6,719,541.52</u>
Capital expenditure by the Commission:	
On Queenston-Chippawa development.....	\$542,562.66
On right-of-way.....	96,807.69
On steel-tower lines.....	1,597,975.03
On wood-pole lines.....	117,996.56
On transformer stations.....	1,028,550.52
On eastern lines.....	1,394,296.11
On eastern stations.....	1,279,053.36
On rural power districts.....	667,805.49
	<u>\$6,725,047.42</u>
On Ontario Power generating plant:	
Receipts in excess of expenditures.....	\$5,357.90
On Toronto Power generating plant:	
Receipts in excess of expenditures.....	148.00
	<u>5,505.90</u>
	<u><u>\$6,719,541.52</u></u>

NOTE.—Toronto Power generating plant account was reduced by:
Compensation paid by Toronto Terminal Railway Company on expropriation of Scott Street (Toronto) steam plant and site.....\$709,406.00

GEORGIAN BAY SYSTEM

Appropriations by Legislature and by special warrant.....	\$943,000.00	
Cash advances to the Commission out of such appropriations and special warrant.....	\$733,536.00	
Expended out of renewal and other reserve funds of the system.....	30,158.93	
		<u>\$763,694.93</u>
Capital expenditure by the Commission:		
On power development.....	\$429,213.50	
On transmission lines.....	148,227.63	
On transformer stations.....	47,894.63	
On rural power districts.....	80,664.82	
On local distributing systems.....	57,694.35	
		<u>\$763,694.93</u>

ST. LAWRENCE AND OTTAWA SYSTEMS AND EASTERN ONTARIO TRANSMISSION EQUIPMENT*

Appropriations by Legislature and by special warrant.....	\$1,174,950.00	
Cash advances to the Commission out of such appropriations and special warrant.....	\$773,385.00	
Unexpended balance as at October 31, 1929, returnable to the Province.....	23,040.55	
		<u>\$750,344.45</u>
Capital expenditure by the Commission:		
St. Lawrence system:		
On transformer stations.....	\$22,377.01	
On rural power districts.....	59,916.23	
	<u>\$82,293.24</u>	
On transmission lines:		
Receipts in excess of expenditures.....	42.97	
		<u>\$82,250.27</u>
Ottawa system:		
On power sites.....	\$319,102.54	
On transformer stations.....	3,635.85	
On rural power districts.....	13,133.28	
	<u>\$335,871.67</u>	
On transmission lines:		
Receipts in excess of expenditures.....	8.80	
		<u>335,862.87</u>
Eastern Ontario Transmission Equipment:		
On transmission lines.....	\$142,051.80	
On transformer stations.....	190,638.42	
	<u>\$332,690.22</u>	
On power development:		
Receipts in excess of expenditures.....	458.91	
		<u>332,231.31</u>
		<u><u>750,344.45</u></u>

*Now incorporated in Eastern Ontario System.

RIDEAU SYSTEM*

Appropriations by special warrant.....	\$78,000.00	
Cash advances to the Commission out of such appropriation.....	\$78,000.00	
Unexpended balance as at October 31, 1929, returnable to the Province	30,970.69	\$47,029.31
Capital expenditure by the Commission:		
On transmission lines.....	\$1,424.34	
On transformer stations.....	22,629.07	
On rural power districts.....	33,207.87	
On power development.....	\$57,261.28	
Receipts in excess of expenditures.....	10,231.97	\$47,029.31

*Now incorporated in Eastern Ontario System.

THUNDER BAY SYSTEM

Appropriations by Legislature and by special warrant.....	\$1,275,000.00	
Cash advances to the Commission out of such appropriations and special warrant.....	\$983,760.00	
Expended out of renewal and other reserve funds of the system.....	8,713.77	\$992,473.77
Capital expenditure by the Commission:		
On power development.....	\$839,428.42	
On transmission lines.....	155,411.72	
	\$994,840.14	
On transformer stations:		
Receipts in excess of expenditures.....	2,366.37	992,473.77

CENTRAL ONTARIO AND NIPISSING SYSTEMS*

Appropriations by Legislature and by special warrant:		
Central Ontario system.....	\$712,000.00	
Nipissing system.....	494,000.00	
	\$1,206,000.00	
Cash advances to the Commission out of such appropriations and special warrant.....	\$800,000.00	
Cash made available by charging against revenue a portion of the expenditure in Crow River storage.....	21,996.78	
	\$821,996.78	
Unexpended balance as at October 31, 1929, returnable to the Province	216,987.65	\$605,009.13
Capital expenditure by the Commission:		
On power development (Central Ontario system).....	\$60,557.80	
On transmission lines (Central Ontario system).....	27,143.65	
On transformer stations (Central Ontario system).....	33,783.99	
On local utilities (Central Ontario system).....	23,447.60	
On rural power districts (Central Ontario system).....	93,512.52	
On power developments (Nipissing system).....	326,600.93	
On transmission lines (Nipissing system).....	9,635.10	
On transformer stations (Nipissing system).....	10,257.98	
On local utilities (Nipissing system).....	17,935.62	
On rural power districts (Nipissing system).....	2,073.94	\$605,009.13

*Now incorporated in Eastern Ontario System.

MADAWASKA SYSTEM

Appropriation by special warrant.....	\$1,866,000.00	
Cash advances to the Commission out of such appropriation.....	\$1,866,000.00	
Unexpended balance as at October 31, 1929, returnable to the Province	1,352.68	1,864,647.32
Capital expenditures by the Commission:		
On the taking over from M. J. O'Brien, Limited, of their interests including waterpower rights and developments, together with stations lines and distribution systems connected thereto on the Madawaska and Mississippi rivers.....	\$1,864,347.07	
On extensions and betterments to the system to October 31, 1929	300.25	
		<u>\$1,864,647.32</u>

WAHNAPIITAE AND PATRICIA DISTRICTS

Appropriations by Legislature and by special warrant.....	\$3,090,370.00	
Cash advances to the Commission out of such appropriations and special warrant.....	\$1,568,200.00	
Unexpended balance as at October 31, 1929, returnable to the Province	2,445.63	\$1,565,754.37
Capital expenditures by the Commission:		
On power development (Ear Falls).....	\$389,924.37	
On Wahnapiitae Power Company (purchase of 3,793 shares of stock of the Wahnapiitae Power Company).....	1,175,830.00	
		<u>1,565,754.37</u>

ALGOMA DISTRICT

Appropriations by Legislature.....	\$10,000.00	
Cash advances to the Commission out of such appropriations.....	Nil.	
Capital expenditures by the Commission.....	Nil.	

MISCELLANEOUS

Appropriation by Legislature.....	\$500,000.00	
Cash advances to the Commission out of such appropriation.....	\$31,000.00	
Unexpended balance as at October 31, 1929, returnable to the Province	3,200.45	\$27,799.55
Capital expenditure by the Commission:		
On administrative office building.....	\$22,500.00	
On service building equipment.....	5,299.55	
		<u>27,799.55</u>

HYDRO-ELECTRIC RAILWAYS

Sandwich, Windsor and Amherstburg Railway

Proceeds from sale of \$250,000.00 par value of bonds issued for the purposes of the railway	\$246,250.00	
Less—Temporarily expended out of renewal and other reserve funds belonging to the railway	28,593.69	
	<u>\$217,656.31</u>	
Less—Cash in the hands of the Commission belonging to the railway as at October 31, 1929	62,325.65	
		\$155,330.66
Capital expenditures by the Commission		<u>155,330.66</u>

Guelph Radial Railway

Expended out of renewal and other reserve funds belonging to the railway	\$6,366.02	
Capital expenditures by the Commission	6,366.02	<u></u>

Port Credit to St. Catharines Radial Railway

Cash in the hands of the Commission on October 31, 1928, being the unexpended balance of borrowings, \$500,000.00	\$45,796.58	
Less—Cash in the hands of the Commission, belonging to the railway as at October 31, 1929	17,833.48	
	<u>\$27,963.10</u>	
Capital expenditures by the Commission		<u>27,963.10</u>

Toronto to Port Credit Radial Railway

Expended out of the renewal and other reserve funds of the Commission	<u>\$51,413.63</u>
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RURAL POWER DISTRICTS—SUMMARY

Statement showing the Total Capital Expenditures to October 31, 1929, on the Construction of Primary and Secondary Lines in Rural Power Districts; the Portions thereof in Course of Construction; the Investment in Lines in Operation; the amounts of Grants (Fifty per cent. of both Primary and Secondary Lines) Payable to the Commission by the Province of Ontario; also the Extents to which Grants stand Authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the Amounts of such Grants Paid over by the Province to the Commission under such Authorizations up to October 31, 1929

System	Total capital expenditure	In course of construction	In operation	Grants (50% of primary and secondary lines) payable by the Province	Extents to which grants stand authorized by orders-in-council	Grants paid by Province to Commission under such authorizations
	\$	\$	\$	\$	\$	\$
Niagara system	7,717,845.13	157,611.24	7,560,233.89	3,854,618.79	4,807,124.47	3,862,672.09
Georgian Bay system	478,418.03	38,892.70	439,525.33	218,101.42	269,175.70	217,424.42
St. Lawrence system	274,049.04	73,220.73	200,828.31	136,373.74	171,439.72	135,910.01
Rideau system	71,326.87	22,068.32	49,258.55	35,663.44	40,927.00	35,663.44
Ottawa system	155,176.30	3,744.45	151,431.85	77,588.15	93,851.76	77,588.15
Central Ontario system	8,696,815.37	295,537.44	8,401,277.93	4,322,345.54	5,382,518.65	4,329,258.11
Nipissing system	611,217.33	62,803.30	548,414.03	305,608.67	408,678.75	304,162.91
	16,481.29		16,481.29	8,240.65	8,634.00	8,240.65
Additional sum authorized by above-mentioned Orders-in-Council and paid over to Commission but not allocated as between rural power districts						4,641,661.67
						45,983.43
						4,687,645.10
	9,324,513.99	358,340.74	8,966,173.25	4,636,194.86	5,799,831.40	

NOTE:—

The cash paid over by the Province to the Commission up to October 31, 1929, on account of authorized grants to rural power districts—as above set out—amounts to.....
 The Grants payable by the Province—as above set out—in respect of rural power districts as at October 31, 1929, amount in the aggregate to.....

A balance of.....
 which balance represents:

(a) Grant funds in the hands of the Commission at October 31, 1929, not allocated but to apply against the construction of authorized rural power districts and extension to existing districts.....
 (aa) Grant funds in the hands of the Commission at October 31, 1929, to apply against the construction of, or extensions to existing lines in certain rural power districts.....

Less:

(b) Grants (or balances thereof) payable by the Province to the Commission in respect of certain rural power districts completed or under construction.....

51,450.24

SECTION X

MUNICIPAL ACCOUNTS

And Statistical Data Relating to Hydro-Electric Distribution Systems Operated by Individual Municipalities Served by The Hydro-Electric Power Commission

The Municipal Accounts section of this report presents in summary, and individually, the results of the operation of the local electrical utilities in municipalities owning their own distributing system and operating with energy supplied by or through the Hydro-Electric Power Commission.

Financial statements prepared from the books of these "Hydro" utilities are submitted herein to show how each has operated during the past year, and the financial status at the present time. Other tables give much useful statistical information respecting average costs for the various classes of service and the rates in force.

The books of account of the local electrical utilities in all municipalities which have contracted with the Hydro-Electric Power Commission of Ontario for a supply of power are kept in accordance with a uniform accounting system designed by the Commission. During the year 1929, the uniform accounting system was installed in the following municipalities as each became ready for the service: Athens, Belleville, Oshawa and Trafalgar Township Zone No. 2.

Periodical inspections are made of the books of all "Hydro" electrical utilities and local officials are assisted in the improvement of their office routine with a view to standardizing, as far as possible, the methods employed. In the majority of the smaller municipalities, much of the bookkeeping for the electrical utilities is performed by representatives of the Municipal Audit department of the Commission, in order to insure the employment of proper classifications of revenue and expenditures, to save time in preparation of reports, to insure compliance with all the requirements of the standard accounting system, and to make certain that the accounts represent as truly as possible the actual operating results for the year.

The first financial statement in this section presents consolidated balance sheets for each year since 1912, and thus shows the march of progress. It combines the balance sheets of the local municipal utilities of all the systems. It is worth noting that the total plant value has increased from \$10,081,469.16 in 1913 to \$75,340,348.08 in 1929, and the total assets from \$11,907,826.86 to

\$106,909,146.26. The liabilities have not increased in the same proportion as the assets, rising from \$10,468,351.79 to \$48,095,707.63. The reason for this is that much of the cost of the increasing plant value has been financed out of surplus and reserve accounts without increasing the liabilities of the various systems. By this procedure the funds of the systems are used to best advantage. Examination of the results will also show that there is a steady decline in the percentage of net liabilities to total assets; being from 88.0 per cent. in 1913 to 47.8 per cent. in 1929. The equity in the Hydro-Electric Power Commission system automatically acquired through the inclusion of sinking fund as part of the cost of power is not taken into account in arriving at these percentages.

The second financial statement presents consolidated operating reports for each year since "Hydro" service was inaugurated and combines the results from the local municipal utilities of all the systems. Study of this statement will show that the revenue has been increasing satisfactorily. The combined annual surplus, after providing for every cost of operation and fixed charges, including an adequate depreciation charge, amounted in 1929 to \$2,401,375.96.

The five statements, "A" to "E," following the two consolidated reports show the financial status of each municipal system and the results of operations, and also give information respecting revenue, number of consumers and consumption; cost of power to municipalities; power and lighting rates charged to consumers, etc. In the statements "A" and "B," the municipalities are arranged in groups under each system and alphabetically for the municipalities in each system; in statement "D" the municipalities are arranged in three groups—cities, towns and small municipalities; in statements "C" and "E" all municipalities are arranged alphabetically.

Statement "A" shows balance sheets for each municipality with the plant value subdivided into the general natural subdivisions specified in the standard accounting system, and there are also shown the other items which make up the total assets. It is to be noted that among the assets there are items entitled "equity in Hydro system." These items represent the amount of accumulated sinking fund paid by the various municipalities through the medium of "power cost" toward the ultimate retirement of the capital invested by the Hydro-Electric Power Commission on behalf of the partner municipalities. The total accumulation to the end of 1929 is shown on the consolidated balance sheet to be \$14,754,865.40.

During the year rebates were made in many municipalities in respect to surpluses standing to the credit of municipal street light and waterworks services, and to individual consumers, of amounts varying from one-sixth to one-fourth of the previous year's revenue. These rebates amounted in round figures to approximately \$340,000 and affected the cash balance and surplus in the current balance sheet accordingly, notwithstanding which material increases will be noted in both accounts when compared with the 1928 figures.

In each case the balance sheet is complete and final, including either in "accounts receivable," or "accounts payable," the adjustments with the Hydro-Electric Power Commission of the differences between the estimated and the actual costs of power to the municipality.

The liabilities of each local system are set out under their general subdivisions,—debenture balance, accounts payable, bank overdraft, and other

liabilities; this last account including local debentures issued by municipalities to finance ornamental street-lighting systems as local improvements.

The reserves for depreciation, and the acquired equity in the Hydro-Electric Power Commission system, are also listed separately and totalled; and under the heading "surplus" are included not only the free operating profit but the accumulation of sinking fund applicable to debenture debt and also the amount of debentures already retired out of revenue.

The "depreciation reserve" now amounts to 18.38 per cent. of the total depreciable plant, while the "depreciation reserve" and "surplus" combined have already reached the sum of \$42,621,201.97, approximating 56.57 per cent. of the total plant cost.

Statement "B" shows detailed operating reports for each municipal electrical utility. It gives annual revenues from the various classes of consumers; the items of expenditure which make up the total annual expenditure; the amount of the annual surpluses and the sums set aside for depreciation. The population served by each local utility, and the number of consumers of each class, are also shown.

The item "power purchased" includes the annual adjustment made by the Commission, and hence shows for the calendar year the actual cost to the municipal electrical utility and not the cost at the interim billed rates.

Of the 259 municipal electrical utilities included in this statement, 234 had revenue from consumers sufficient to meet all operating expenses and fixed charges and to yield an aggregate operating surplus of \$2,420,741.67, for the year; 15 were able to defray all operating and fixed charges except depreciation, but failed to set aside the full theoretical amounts for that reserve by \$10,306.13; only 10 had gross deficits in respect of operating expenses and fixed charges other than depreciation, aggregating \$5,196.58. The net surplus for all "Hydro" utilities was \$2,401,375.96 for the year.

Statement "C" shows the installation of street lights in each municipality together with the rates set by this Commission, the revenue for 1929, and the cost per capita in each municipality.

Statement "D" presents statistics relating to the supply of electrical energy to consumers in Ontario municipalities served by the Commission. It shows the revenue, kilowatt-hour consumption, number of consumers, average monthly consumption, average monthly bill and the net average cost per kilowatt-hour both for domestic and for commercial light service in each municipality. For power service this statement shows the revenue, the number of consumers, the average horsepower supplied by the municipal utility* and the average cost per horsepower per year. For further reference to this informative statement, consult the special introduction to it on page 000.

Statement "E" presents the cost per horsepower of the power provided for and delivered to the municipalities by the Commission, and the local rates to consumers in force in the respective municipalities, during the year 1929, for domestic service, for commercial light service and for power service.

*The statistics include retail power only. Wholesale industrial power as supplied by the Commission direct, is reported in Section IX.

CONSOLIDATED

YEAR.....	1913	1914	1915
Number of municipalities included.....	45	69	99
ASSETS	\$ c.	\$ c.	\$ c.
Lands and buildings.....	626,707.34	791,732.20	873,838.18
Substation equipment.....	1,090,875.69	1,476,087.84	1,582,062.56
Distribution system—overhead.....	2,690,834.74	3,422,763.93	4,234,626.05
Distribution system—underground.....	644,514.24	807,153.53	928,420.77
Line transformers.....	615,546.20	787,613.52	981,754.70
Meters.....	840,606.64	1,172,475.11	1,418,165.08
Street lighting equipment—regular.....	900,614.80	1,071,255.37	1,309,628.49
Street lighting equipment—ornamental.....	62,765.34	270,386.55	197,644.82
Miscellaneous construction expenses....	866,551.89	2,062,035.90	1,701,182.66
Steam or hydraulic plant.....	1,401,175.28	420,108.33	461,651.60
Old plant.....	341,277.00	619,513.12	1,184,372.86
Total plant.....	10,081,469.16	12,901,125.40	14,873,347.77
Bank and cash balance.....	450,887.97	422,350.12	284,653.96
Securities and investments.....			
Accounts receivable.....	344,487.95	561,873.08	602,920.69
Inventories.....	540,274.58	615,226.76	726,556.76
Sinking fund on local debentures.....	431,747.27	625,217.03	868,983.78
Equity in Hydro systems.....			
Other assets.....	58,959.93	123,410.97	326,801.11
Total assets.....	11,907,826.86	15,249,203.36	17,683,264.07
LIABILITIES			
Debenture balance.....	8,711,308.37	10,678,078.36	11,831,811.03
Accounts payable.....	1,553,711.45	1,682,150.29	2,040,038.01
Bank overdraft.....	160,919.16	228,622.50	292,106.44
Other liabilities.....	42,412.81	113,838.66	37,388.31
Total liabilities.....	10,468,351.79	12,702,689.81	14,201,343.79
RESERVES			
For equity in H.E.P.C. system.....			
For depreciation.....	478,145.88	850,618.07	1,337,739.73
Other reserves.....			
Total reserves.....	478,145.88	850,618.07	1,337,739.73
SURPLUS			
Debentures paid.....	202,751.26	320,129.10	394,466.22
Local sinking fund.....	431,747.27	625,217.03	868,983.78
Additional operating surplus.....	326,830.66	750,549.35	880,730.55
Total surplus.....	961,329.19	1,695,895.48	2,144,180.55
Total liabilities, reserves and surplus....	11,907,826.86	15,249,203.36	17,683,264.07
Percentage of net debt to total assets....	88	88.3	80.3

NOTE.—In computing the percentage of net debt to total assets the sinking fund on local debentures and equity in "Hydro" systems are excluded from assets, and total liabilities are reduced by amount of local sinking fund.

BALANCE SHEET

1916	1917	1918	1919	1920
128	143	166	191	195
\$ c. 1,335,936.33 1,934,626.12 4,832,353.27 1,095,709.62 1,179,132.07 1,711,299.49 1,251,057.13 306,388.95 2,059,263.42 864,500.01 759,748.66	\$ c. 1,546,241.41 2,471,293.82 6,080,073.42 1,157,059.90 1,483,839.44 1,999,095.48 1,237,734.69 361,975.74 2,184,015.84 896,753.20 649,852.51	\$ c. 1,859,888.69 2,820,448.70 6,627,237.39 1,216,288.59 1,772,691.35 2,238,143.70 1,200,625.65 531,502.61 2,395,096.50 214,575.75 1,476,413.00	\$ c. 1,995,545.83 2,915,125.56 7,445,820.31 1,206,296.88 2,073,114.45 2,587,566.32 1,206,638.71 546,497.68 2,430,101.08 986,200.57 805,959.89	\$ c. 2,175,568.24 3,231,050.80 8,579,881.49 1,313,369.29 2,560,581.59 3,053,135.20 1,269,006.98 557,678.13 2,697,636.12 757,194.47 864,298.39
17,330,015.07	20,077,935.45	22,352,951.93	24,298,866.28	27,059,400.70
1,061,029.90	340,026.50	391,194.91	462,437.23	943,858.12
695,152.23	1,285,097.33	1,124,018.44	627,076.53	341,855.88
764,504.59	1,261,398.36	972,996.96	1,921,166.69	2,022,538.88
1,166,017.73	1,337,578.96	1,663,298.05	1,032,569.75	1,400,671.89
342,215.87	125,240.05	444,787.63	1,925,455.77	2,244,004.34
			369,071.89	577,584.06
			86,216.05	25,447.07
21,358,935.39	24,427,276.65	26,949,247.92	30,722,860.19	34,615,360.94
15,058,641.57	15,593,773.61	17,209,217.70	18,133,462.44	19,268,072.04
969,187.75	1,537,669.11	1,007,727.79	1,420,926.66	1,840,137.54
178,413.26	886,177.94	576,816.49	403,235.57	514,671.99
491,874.90	429,104.20	350,013.21	670,271.90	642,293.65
16,698,117.48	18,446,724.86	19,143,775.19	20,627,896.57	22,265,175.22
1,843,804.68	2,463,723.83	3,133,550.17	373,871.89	577,584.06
			3,750,162.28	4,788,645.03
1,843,804.68	2,463,723.83	3,133,550.17	4,124,034.17	5,366,299.09
549,778.59	694,797.90	920,076.56	1,328,657.68	1,440,157.52
1,165,785.94	1,340,615.38	1,662,602.69	1,754,020.37	2,246,474.47
1,101,448.70	1,481,414.68	2,089,243.31	2,888,251.40	3,297,325.64
2,817,013.23	3,516,827.96	4,671,922.56	5,970,929.45	6,983,956.63
21,358,935.39	24,427,276.65	26,949,247.92	30,722,860.19	34,615,360.94
78.4	75.5	71.0	67.9	65.4

CONSOLIDATED

YEAR.....	1921	1922	1923
Number of municipalities included.....	215	226	235
ASSETS	\$ c.	\$ c.	\$ c.
Lands and buildings.....	3,230,985.63	3,334,552.68	4,488,054.93
Substation equipment.....	5,403,689.90	5,046,857.98	6,015,919.75
Distribution system—overhead.....	8,397,361.48	11,165,330.24	13,135,581.76
Distribution system—underground.....	1,401,135.97	1,598,053.02	1,959,120.41
Line transformers.....	3,077,649.83	3,618,684.73	4,211,655.89
Meters.....	3,552,076.79	4,033,689.52	4,548,933.73
Street lighting equipment—regular.....	1,335,997.13	1,419,016.05	1,061,473.85
Street lighting equipment—ornamental.....	610,586.70	666,084.50	708,431.22
Miscellaneous construction expenses.....	3,030,134.16	3,261,495.74	3,681,274.88
Steam or hydraulic plant.....	704,848.46	565,158.54	566,619.86
Old plant.....	912,388.55	7,997,947.87	8,051,496.28
Total plant.....	31,565,854.60	42,706,840.87	48,428,562.56
Bank and cash balance.....	900,842.34	1,164,336.24	1,276,140.06
Securities and investments.....	556,608.53	443,938.18	1,153,424.47
Accounts receivable.....	2,148,287.05	3,874,317.14	3,198,769.34
Inventories.....	1,504,596.28	1,738,795.96	1,819,711.62
Sinking fund on local debentures.....	2,541,618.35	3,416,231.45	3,896,261.28
Equity in Hydro systems.....	795,570.51	1,543,434.12	2,929,603.94
Other assets.....	78,929.84	238,940.13	190,071.63
Total assets.....	40,111,979.23	55,126,834.09	62,892,544.90
LIABILITIES			
Debenture balance.....	21,619,220.99	30,454,186.12	33,056,501.29
Accounts payable.....	1,887,567.93	3,669,292.52	3,708,781.76
Bank overdraft.....	989,099.98	456,706.69	680,814.59
Other liabilities.....	938,368.84	586,203.02	1,517,828.47
Total liabilities.....	25,434,257.74	35,196,388.35	38,963,826.11
RESERVES			
For equity in H.E.P.C. system.....	800,249.05	1,543,434.12	2,929,603.94
For depreciation.....	5,491,858.93	6,512,813.92	7,328,858.69
Other reserves.....			
Total reserves.....	6,292,107.98	8,056,248.04	10,258,462.63
SURPLUS			
Debentures paid.....	1,860,079.53	3,104,591.15	2,852,038.38
Local sinking fund.....	2,541,618.35	3,416,231.45	3,896,261.28
Additional operating surplus.....	3,983,815.63	5,353,375.10	6,921,956.50
Total surplus.....	8,385,613.51	11,874,197.70	13,670,256.16
Total liabilities, reserves and surplus...	40,111,979.23	55,126,834.09	62,892,544.90
Percentage of net debt to total assets...	64.7	63.3	62.6

BALANCE SHEET—Concluded

1924	1925	1926	1927	1928	1929
248	247	251	252	256	260
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,561,648.92	5,768,855.99	6,111,162.54	6,486,426.89	7,024,646.76	7,469,451.46
6,800,238.00	8,543,166.55	9,505,501.77	15,088,905.14	16,866,186.21	18,102,792.13
14,182,190.33	16,837,535.57	18,654,240.54	16,689,462.41	17,688,050.68	18,108,016.82
2,873,446.13	3,388,837.09	3,689,569.95	3,278,382.58	3,559,288.16	4,823,369.60
4,456,669.02	5,079,754.23	5,538,605.24	5,985,521.37	6,549,674.64	7,312,742.17
5,149,629.71	5,533,483.92	5,963,162.51	6,346,660.59	6,839,802.90	7,405,478.91
1,134,491.77	1,256,916.53	1,309,608.30	1,399,314.06	1,486,646.24	1,594,183.25
728,298.08	893,186.48	1,103,660.23	1,184,035.82	1,203,706.65	1,458,349.64
4,168,262.21	4,485,110.96	3,456,777.71	3,360,671.09	3,394,626.92	3,483,487.78
4,196,803.45	568,912.49	628,909.57	607,320.00	619,880.93	489,097.57
5,587,420.31	4,549,142.46	4,655,422.59	5,095,555.90	5,032,089.26	5,093,378.75
53,839,097.93	56,904,902.27	60,616,620.95	65,522,255.85	70,264,599.35	75,340,348.08
1,748,912.34	1,700,145.30	2,136,290.79	3,014,832.48	1,342,367.07	858,733.68
1,329,622.58	1,095,662.92	1,400,316.43	1,696,237.66	1,837,140.51	2,001,088.81
3,898,751.89	3,417,558.86	3,508,817.87	3,715,770.72	4,097,446.13	4,683,201.97
1,745,628.16	1,711,504.13	1,397,667.83	1,412,729.41	1,220,186.10	1,365,033.58
4,520,723.06	5,202,451.70	5,599,675.01	6,398,909.77	7,071,273.69	7,753,613.88
5,420,567.58	7,551,588.70	8,046,868.53	10,143,205.66	12,326,097.56	14,754,865.40
250,292.77	137,280.05	33,151.81	31,942.45	153,275.04	152,260.86
72,753,596.31	77,721,093.93	82,739,409.22	91,935,884.00	98,312,385.45	106,909,146.26
38,005,162.50	37,919,225.01	39,602,533.48	42,891,361.57	42,597,175.78	42,930,127.74
3,117,224.08	3,139,067.92	3,118,684.78	2,988,621.90	3,074,634.25	3,132,145.03
162,100.71	226,147.82	163,725.53	252,362.52	253,143.81	412,056.69
1,780,564.27	1,075,914.83	1,087,795.08	1,154,810.24	1,258,610.23	1,621,378.17
43,065,051.56	42,360,355.58	43,972,738.87	47,287,156.23	47,183,564.07	48,095,707.63
5,420,567.58	7,551,588.70	8,046,868.53	10,143,205.66	12,326,097.56	14,754,865.40
8,097,834.68	8,699,437.68	9,360,322.27	10,319,889.05	11,140,795.68	11,911,154.49
.....	1,157,147.20	947,970.23	1,002,916.69	1,117,257.63	1,437,371.26
13,518,402.26	17,408,173.58	18,355,161.03	21,466,011.40	24,584,150.87	28,103,391.15
3,530,610.35	4,440,138.34	5,493,879.83	6,648,767.38	7,928,907.61	9,194,253.59
4,520,723.06	5,202,451.70	5,599,675.01	6,398,909.77	7,071,273.69	7,962,121.20
8,118,809.08	8,309,074.73	9,317,954.48	10,135,039.22	11,544,489.21	13,553,672.69
16,170,142.49	17,952,564.77	20,411,509.32	23,182,716.37	26,544,670.51	30,710,047.48
72,753,596.31	77,721,093.93	82,739,409.22	91,935,884.00	98,312,385.45	106,909,146.26
61.4	57.2	55.5	54.2	50.8	47.8

CONSOLIDATED

YEAR.....	1912	1913	1914	1915
Number of municipalities included.....	28	45	69	99
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....		572,154.38	789,130.81	944,271.08
Commercial light.....		525,438.16	673,803.92	720,209.26
Commercial power.....		905,378.17	1,214,829.31	1,501,797.78
Municipal power.....				
Street lighting.....		560,925.56	698,409.71	835,970.87
Rural service.....				
Miscellaneous.....		53,543.24	57,482.41	68,046.29
Total earnings.....	1,617,674.00	2,617,439.51	3,433,656.16	4,070,295.28
EXPENSES				
Power purchased.....		789,632.87	1,045,752.65	1,485,614.72
Substation operation.....		78,394.81	97,658.90	107,607.31
Substation maintenance.....		18,698.46	31,790.99	25,935.56
Distribution system, operation and maintenance.....		104,114.51	130,998.65	154,409.71
Line transformer maintenance.....		8,547.61	11,764.32	11,508.92
Meter maintenance.....		5,222.19	9,536.07	12,899.14
Consumers' premises expenses.....		53,108.38	65,192.23	47,494.26
Street lighting, operation and maintenance.....		84,903.76	113,047.80	136,983.38
Promotion of business.....		72,303.51	86,683.02	74,402.55
Billing and collecting.....		77,351.76	103,560.71	131,541.27
General office, salaries and expenses.....		154,932.69	230,899.75	236,777.86
Undistributed expense.....		65,423.64	89,350.91	129,209.15
Interest.....		528,549.21	662,092.34	817,978.89
Sinking fund and principal payments on debentures.....		*	*	*
Total expenses.....	1,377,168.00	2,041,183.40	2,678,328.34	3,371,414.00
Surplus.....	240,506.00	576,256.11	755,327.82	698,881.28
Depreciation charge.....	124,992.47	262,675.24	357,883.31	414,506.99
Surplus less depreciation.....	115,513.53	313,580.87	397,444.51	284,374.29

*Debenture payments included in "Interest."

OPERATING REPORT

1916	1917	1918	1919	1920
128	143	166	181	186
<div>\$ c.</div> <div>1,172,878.96</div> <div>812,130.78</div> <div>1,921,152.31</div> <div>930,057.48</div> <div>147,381.50</div> <div>4,983,601.03</div>	<div>\$ c.</div> <div>1,417,460.31</div> <div>899,023.72</div> <div>2,665,280.65</div> <div>967,495.10</div> <div>120,805.39</div> <div>6,070,065.17</div>	<div>\$ c.</div> <div>1,632,272.12</div> <div>968,399.42</div> <div>3,417,248.37</div> <div>902,875.55</div> <div>161,243.70</div> <div>7,082,039.16</div>	<div>\$ c.</div> <div>1,991,632.31</div> <div>1,175,143.56</div> <div>3,443,107.13</div> <div>988,900.95</div> <div>228,270.65</div> <div>7,827,054.60</div>	<div>\$ c.</div> <div>2,546,345.30</div> <div>1,512,854.63</div> <div>3,752,188.22</div> <div>532,279.09</div> <div>1,005,535.11</div> <div>168,919.95</div> <div>189,778.63</div> <div>9,707,900.93</div>
<div>1,959,446.83</div> <div>153,761.08</div> <div>46,131.53</div> <div>154,247.17</div> <div>14,528.17</div> <div>24,218.48</div> <div>52,602.01</div> <div>145,471.50</div> <div>79,324.85</div> <div>154,508.58</div> <div>306,709.35</div> <div>97,333.97</div> <div>951,781.99</div> <div>*</div> <div>4,140,065.51</div> <div>843,535.52</div> <div>486,141.80</div> <div>357,393.72</div>	<div>2,563,880.17</div> <div>203,091.20</div> <div>42,129.04</div> <div>169,326.24</div> <div>25,328.95</div> <div>44,461.55</div> <div>61,765.14</div> <div>157,857.73</div> <div>73,516.37</div> <div>188,083.84</div> <div>349,932.05</div> <div>102,938.80</div> <div>1,085,180.80</div> <div>*</div> <div>5,077,491.08</div> <div>992,574.09</div> <div>607,296.29</div> <div>385,367.80</div>	<div>2,807,769.33</div> <div>238,257.34</div> <div>60,805.92</div> <div>223,347.81</div> <div>30,488.83</div> <div>63,155.56</div> <div>65,149.59</div> <div>196,157.18</div> <div>64,962.78</div> <div>208,660.76</div> <div>421,680.15</div> <div>117,474.07</div> <div>1,238,425.53</div> <div>*</div> <div>5,736,334.85</div> <div>1,345,704.31</div> <div>718,162.30</div> <div>627,542.01</div>	<div>3,284,490.68</div> <div>217,638.89</div> <div>81,853.63</div> <div>286,310.76</div> <div>42,509.12</div> <div>78,726.64</div> <div>84,301.24</div> <div>215,963.86</div> <div>77,789.22</div> <div>236,504.75</div> <div>452,131.22</div> <div>190,690.09</div> <div>1,285,571.51</div> <div>*</div> <div>6,531,481.61</div> <div>1,295,572.99</div> <div>814,219.37</div> <div>481,353.62</div>	<div>4,216,667.87</div> <div>285,407.35</div> <div>102,050.81</div> <div>344,551.57</div> <div>46,323.09</div> <div>123,701.18</div> <div>116,283.52</div> <div>236,930.79</div> <div>78,294.85</div> <div>295,942.88</div> <div>559,695.29</div> <div>256,400.33</div> <div>1,431,807.16</div> <div>*</div> <div>8,094,056.69</div> <div>1,613,844.24</div> <div>902,028.75</div> <div>711,815.49</div>

*Debenture payments included in "Interest."

CONSOLIDATED OPERATING

YEAR.....	1921	1922	1923
Number of municipalities included.....	205	214	224
EARNINGS			
	\$ c.	\$ c.	\$ c.
Domestic service.....	3,149,080.03	3,786,608.23	5,166,452.24
Commercial light.....	1,851,501.76	2,158,306.34	3,260,772.50
Commercial power.....	3,895,437.46	4,383,912.97	5,927,666.37
Municipal power.....	654,531.01	973,263.38	1,161,598.60
Street lighting.....	1,060,357.77	1,160,446.81	1,269,604.48
Rural service.....	145,566.57	105,877.09	116,639.06
Miscellaneous.....	225,467.70	187,689.39	316,311.21
Total earnings.....	10,981,942.30	12,756,104.21	17,219,044.46
EXPENSES			
Power purchased.....	4,876,650.31	6,636,853.37	8,699,026.67
Substation operation.....	314,838.35	315,443.70	474,442.13
Substation maintenance.....	104,798.01	100,763.67	133,815.53
Distribution system, operation and maintenance.....	487,918.33	519,252.16	636,477.41
Line transformer maintenance.....	65,088.46	52,932.26	75,920.10
Meter maintenance.....	116,722.97	107,806.88	139,104.81
Consumers' premises expenses.....	134,854.92	143,388.88	218,682.02
Street lighting, operation and maintenance	297,481.52	297,363.86	299,579.08
Promotion of business.....	101,804.46	129,932.63	184,371.00
Billing and collecting.....	321,685.71	338,153.50	444,306.92
General office, salaries and expenses....	656,268.11	605,852.50	937,463.47
Undistributed expense.....	308,874.42	385,895.03	359,206.91
Truck operation and maintenance.....			
Interest.....	998,611.47	1,074,657.44	1,615,205.16
Sinking fund and principal payments on debentures.....	532,183.96	635,469.90	990,907.14
Total expenses.....	9,317,781.00	11,343,765.78	15,208,508.35
Surplus.....	1,664,161.30	1,412,338.43	2,010,536.11
Depreciation charge.....	1,044,434.85	715,814.24	916,782.75
Surplus less depreciation.....	619,726.45	696,524.19	1,093,753.36

REPORT—Concluded

1924	1925	1926	1927	1928	1929
241	242	248	251	255	259
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,993,231.07	6,439,159.86	7,372,602.62	8,189,866.89	8,925,050.56	9,873,681.57
3,566,227.22	3,866,292.79	4,187,899.19	4,626,815.51	5,182,723.32	5,697,766.06
6,222,865.88	6,568,854.77	6,789,217.54	7,342,173.20	8,298,669.44	9,376,158.74
1,352,966.47	1,923,093.09	1,922,512.34	1,913,502.88	1,921,300.97	2,086,444.24
1,356,668.97	1,415,382.22	1,457,686.21	1,489,242.37	1,534,476.98	1,598,262.43
75,100.24	37,975.18	37,810.73	13,765.72	48,451.90*	*51,590.54
231,663.58	286,451.08	471,134.15	581,913.04	465,791.92	522,780.95
18,798,723.43	20,537,208.99	22,238,862.78	24,157,279.61	26,376,465.09	29,206,684.53
9,669,789.40	11,063,123.34	12,185,669.10	13,505,583.77	14,688,570.08	16,379,162.88
430,056.09	417,921.71	450,416.84	430,211.76	420,512.48	461,270.27
202,050.04	207,497.63	286,520.37	275,148.86	247,647.88	274,275.56
648,700.62	686,344.54	795,514.70	758,747.10	736,159.85	907,817.04
82,936.50	75,473.28	74,876.11	94,706.38	88,676.18	93,608.14
141,231.23	156,909.55	189,603.70	214,813.87	218,530.96	242,126.27
237,316.20	252,808.47	275,020.62	285,352.68	291,333.03	314,495.03
269,973.30	275,316.60	295,869.37	318,395.79	329,597.16	359,373.40
202,060.74	217,102.24	234,696.74	220,687.60	249,842.01	250,844.28
490,273.30	521,134.01	557,271.54	605,627.58	638,797.02	695,729.42
889,907.66	891,640.29	786,742.60	824,868.90	844,578.55	904,025.64
494,078.50	520,584.58	460,288.30	531,003.80	542,755.34	502,206.06
1,779,991.26	1,889,810.95	1,985,233.73	2,063,698.00	2,111,049.49	110,630.62
1,122,798.87	1,294,027.29	1,347,511.92	1,505,626.31	1,601,711.32	2,152,695.49
16,661,163.71	18,469,694.48	19,925,235.64	21,634,472.40	23,009,761.35	25,335,461.74
2,137,559.72	2,067,514.51	2,313,627.14	2,522,807.21	3,366,703.74	3,871,222.79
973,649.62	1,068,880.42	1,146,273.05	1,249,711.65	1,350,252.16	1,469,846.83
1,163,910.10	998,634.09	1,167,354.09	1,273,095.56	2,016,451.58	2,401,375.96

*Profits from the sale of merchandise. There is no rural revenue now.

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM

Municipality.....	Acton	Agincourt P.V.	Ailsa Craig 521	Alvinston	Amherst- burg 3,017
Population.....	1,973			635	
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	1,545.45			133.56	
Substation equipment.....	1,847.39				932.00
Distribution system—overhead....	18,709.99	8,175.28	8,118.55	13,977.12	29,030.31
Distribution system—underground					
Line transformers.....	13,404.53	2,646.25	3,085.95	2,895.48	12,806.46
Meters.....	9,029.71	2,086.16	2,551.07	2,917.38	15,025.53
Street light equipment, regular....	1,433.37	705.99	404.09	1,090.62	812.44
Street light equipment, ornamental					
Miscellaneous construction expense	3,140.67		503.36	758.68	1,321.13
Steam or hydraulic plant.....					
Old plant.....	3,481.50			773.85	
Total plant.....	52,592.61	13,613.68	14,663.02	22,546.69	59,927.87
Bank and cash balance.....	1,628.41	730.33	1,882.81	801.55	8,768.80
Securities and investments.....	1,500.00	1,000.00	3,000.00	2,000.00	
Accounts receivable.....	2,238.41	526.16	271.53	80.66	2,969.41
Inventories.....	1,099.09			1.68	
Sinking fund on local debentures..					
Equity in hydro systems.....	19,754.09	2,370.78	6,289.90	5,638.60	15,095.02
Other assets.....					
Total assets.....	78,812.61	18,240.95	26,107.26	31,069.18	86,761.10
Deficit.....				1,323.61	
Total.....	78,812.61	18,240.95	26,107.26	32,392.79	86,761.10
LIABILITIES					
Debenture balance.....	2,397.62	5,500.37	1,362.38	16,327.18	30,001.75
Accounts payable.....		30.58	745.00	351.22	
Bank overdraft.....					
Other liabilities.....	301.85				1,688.22
Total liabilities.....	2,699.47	5,530.95	2,107.38	16,678.40	31,689.97
RESERVES					
For equity in H.E.P.C. systems....	19,754.09	2,370.78	6,289.90	5,638.60	15,095.02
For depreciation.....	9,682.54	1,262.55	4,300.86	2,873.73	11,059.69
Other reserves.....					
Total reserves.....	29,436.63	3,633.33	10,590.76	8,512.33	26,154.71
SURPLUS					
Debentures paid.....	12,102.38	2,572.28	2,872.59	7,202.06	2,051.85
Local sinking fund.....					
Additional operating surplus.....	34,574.13	6,504.39	10,536.53		26,864.57
Total surplus.....	46,676.51	9,076.67	13,409.12	7,202.06	28,916.42
Total liabilities, reserves and surplus	78,812.61	18,240.95	26,107.26	32,392.79	86,761.10
Percentage of net debt to total assets	4.6	34.8	10.6	65.6	44.2

“A”

Hydro Municipalities as at December 31, 1929

Ancaster Twp. 4,073	Arkona 385	Aylmer 2,050	Ayr 789	Baden P.V.	Barton Twp. 7,795	Beachville P.V.	Belle River 791
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	9,019.23	125.00	660.64	.....	176.13	.....
21,559.87	9,064.96	20,295.99	11,921.28	6,595.34	6,084.55	12,826.85	14,548.54
8,782.08	1,513.44	9,380.78	3,726.67	3,405.83	2,233.39	2,356.94	3,325.55
8,106.26	1,566.59	8,825.88	3,379.55	2,611.25	2,202.89	2,988.30	2,968.34
1,064.51	671.60	1,438.41	575.65	447.45	214.50	410.35	924.29
1,511.21	242.32	1,194.54	941.79	.....	.....	652.04	962.78
.....	1,184.65	6,719.17	4,002.53	.....	.....	.....	.....
41,023.93	14,243.56	56,874.00	24,672.47	13,720.51	10,735.33	19,410.61	22,729.50
5,318.63	70.03	2,694.18	812.19	3,684.86	587.67	2,257.04	1,174.52
.....	.....	12,000.00	.....	.....	.....	7,000.00	3,000.00
3,304.38	570.76	3,087.50	310.58	593.89	1,155.12	1,342.25	1,340.11
.....
6,709.88	1,172.77	13,361.67	4,787.42	13,049.75	1,474.05	15,977.87	2,720.32
2,561.30	.....	.....	612.63	.....	.....	.....	.....
58,918.12	16,057.12	88,017.35	31,195.29	31,049.01	13,952.17	45,987.77	30,964.45
.....	1,176.11	.....	.....	.....	.....	.....	.....
58,918.12	17,233.23	88,017.35	31,195.29	31,049.01	13,952.17	45,987.77	30,964.45
.....
14,165.68	11,818.81	24,943.62	8,251.30	2,882.83	8,757.23	3,117.85	6,888.25
2,200.62	2,440.63	.....	.....	722.13	206.25	.....	.....
.....
.....	.....	15.00	.....	.....	65.00	.....	.....
16,366.30	14,259.44	24,958.62	8,251.30	3,604.96	9,028.48	3,117.85	6,888.25
.....
6,709.88	1,172.77	13,361.67	4,787.42	13,049.75	1,474.05	15,977.87	2,720.32
7,508.50	507.00	7,355.11	2,192.52	1,118.33	1,594.05	4,046.39	2,377.93
2,561.30	.....	.....	.....	.....	.....	.....	5,000.00
16,779.68	1,679.77	20,716.78	6,979.94	14,168.08	3,068.10	20,024.26	10,098.25
.....
2,834.32	1,294.02	13,758.30	9,252.08	2,117.17	1,850.73	2,235.15	1,611.75
22,937.82	.....	28,583.65	6,711.97	11,158.80	4.86	20,610.51	12,366.20
25,772.14	1,294.02	42,341.95	15,964.05	13,275.97	1,855.59	22,845.66	13,977.95
58,918.12	17,233.23	88,017.35	31,195.29	31,049.01	13,952.17	45,987.77	30,964.45
31.3	95.8	33.4	31.2	20	72.3	10.4	24.4

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Blenheim	Blyth	Bolton	Bothwell	Brampton
Population.....	1,595	641	599	630	5,100
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....					5,081.32
Substation equipment.....	909.64				24,701.45
Distribution system, overhead....	21,387.66	10,500.79	8,948.50	5,903.79	45,810.25
Distribution system, underground					
Line transformers.....	7,788.00	2,206.35	3,407.44	2,229.63	22,547.22
Meters.....	9,168.85	1,642.42	2,749.12	2,796.17	23,963.90
Street light equipment, regular...	1,800.69	1,284.19	567.79	195.44	2,574.56
Street light equipment, ornamental	1,482.97			4,431.19	
Miscellaneous construction expense	1,718.42	254.58	1,043.38	528.56	17,819.58
Steam or hydraulic plant.....					
Old plant.....		2,332.68	1,554.60		
Total plant.....	44,256.23	18,221.01	18,270.83	16,084.78	142,498.28
Bank and cash balance.....	25.00	73.12	1,435.61	1,140.05	50.00
Securities and investments.....			3,500.00	11,000.00	17,902.29
Accounts receivable.....	1,310.52	1,910.66	618.98	790.00	10,333.64
Inventories.....				69.19	249.66
Sinking fund on local debentures..					
Equity in hydro systems.....	13,135.16	2,526.64	7,252.75	7,980.85	57,005.50
Other assets.....					
Total assets.....	58,726.91	22,731.43	31,078.17	37,064.87	228,039.37
Deficit.....					
Total.....	58,726.91	22,731.43	31,078.17	37,064.87	228,039.37
LIABILITIES					
Debenture balance.....	10,278.62	12,660.23	8,004.99	3,670.90	26,318.83
Accounts payable.....				1,494.51	4,011.51
Bank overdraft.....	228.92				12,008.60
Other liabilities.....	1,482.97			5.00	
Total liabilities.....	11,990.51	12,660.23	8,004.99	5,170.41	42,338.94
RESERVES					
For equity in H.E.P.C. systems...	13,135.16	2,526.64	7,252.75	7,980.85	57,005.50
For depreciation.....	7,394.72	1,430.11	6,196.92	3,947.12	38,818.82
Other reserves.....					
Total reserves.....	20,529.88	3,956.75	13,449.67	11,927.97	95,824.32
SURPLUS					
Debentures paid.....	3,721.38	3,608.80	4,495.01	1,863.29	42,731.81
Local sinking fund.....					
Additional operating surplus.....	22,485.14	2,505.65	5,128.50	18,103.20	47,144.30
Total surplus.....	26,206.52	6,114.45	9,623.51	19,966.49	89,876.11
Total liabilities, reserves and surplus	58,726.91	22,731.43	31,078.17	37,064.87	228,039.37
Percentage of net debt to total assets	26.2	62.6	33.6	17.7	24.7

“A”—Continued

Hydro Municipalities as at December 31, 1929

Brantford 28,903	Brantford Twp. 7,075	Bridgeport P.V.	Brigden P.V.	Brussels 736	Burford P.V.	Burgess- ville, P.V.	Caledonia 1,450
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
79,383.51			101.03		202.00		
125,181.88	1,192.71						
222,087.75	48,174.38	8,831.16	6,892.15	13,371.74	7,968.92	3,005.89	13,614.14
6,000.00							
113,511.54	14,761.66	3,332.50	1,937.10	2,395.35	2,353.44	1,099.80	4,668.11
105,726.58	10,566.09	1,915.10	2,199.05	3,304.58	3,180.86	915.24	4,818.56
22,879.32	3,484.71	1,430.64	249.45	1,568.00	425.14	188.39	1,371.44
38,797.27							
29,397.67	4,126.83	563.56	858.11	1,537.56	644.50	457.22	587.31
			1,381.00	2,827.50			
742,965.52	82,306.38	16,072.96	13,617.89	25,004.73	14,774.86	5,666.54	25,059.56
4,283.01	4,479.01	1,238.81	1,220.70	190.16	2,130.37	2,147.68	2,015.13
	1,839.06				1,000.00		
58,536.71		124.82	1,086.05	688.01	668.40	556.31	667.79
856.11		17.15					
149,800.05	2,078.10						
289,891.38	7,262.05	873.82	4,345.51	3,719.76	4,740.59	1,900.04	7,187.97
1,246,332.78	97,964.60	18,327.56	20,270.15	29,602.66	23,314.22	10,270.57	34,930.45
1,246,332.78	97,964.60	18,327.56	20,270.15	29,602.66	23,314.22	10,270.57	34,930.45
441,000.00	35,321.87	11,914.39	1,902.02	16,851.52	1,737.04	1,499.43	2,663.66
8,661.00	189.50	394.35	1,028.19			305.15	
44,894.04	1,392.94	14.05			5.00		
494,555.04	36,904.31	12,322.79	2,930.21	16,851.52	1,742.04	1,804.58	2,663.66
289,891.38	7,262.05	873.82	4,345.51	3,719.76	4,740.59	1,900.04	7,187.97
156,569.96	15,925.00	3,070.92	2,118.89	2,143.68	3,254.26	1,493.83	2,926.59
1,000.00							
447,461.34	23,187.05	3,944.74	6,464.40	5,863.44	7,994.85	3,393.87	10,114.56
89,000.00	21,803.79	453.64	6,097.98	4,148.48	7,262.96	2,000.57	1,960.34
149,800.05	2,078.10						
65,516.35	13,991.35	1,606.39	4,777.56	2,739.22	6,314.37	3,071.55	20,191.89
304,316.40	37,873.24	2,060.03	10,875.54	6,887.70	13,577.33	5,072.12	22,152.23
1,246,332.78	97,964.60	18,327.56	20,270.15	29,602.66	23,314.22	10,270.57	34,930.45
42.7	39.2	70.6	18.4	65.1	9.4	21.6	9.6

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Campbell- ville, P.V.	Cayuga	Chatham	Chippawa	Clifford
Population.....		619	15,509	1,207	493
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....			42,430.35		
Substation equipment.....			79,531.72		
Distribution system, overhead....	2,690.44	14,729.87	150,236.49	16,886.07	5,992.80
Distribution system, underground			69,762.37		
Line transformers.....	696.23	2,809.06	81,044.55	5,027.91	787.64
Meters.....	447.00	2,041.32	65,982.49	4,155.90	1,842.74
Street light equipment, regular...	258.56	942.83	9,614.78	1,790.65	596.64
Street light equipment, ornamental			27,822.26		
Miscellaneous construction expense	6.82	353.31	28,853.55	1,022.19	37.44
Steam or hydraulic plant.....					
Old plant.....			42,816.11		
Total plant.....	4,099.05	20,876.39	598,094.67	28,882.72	9,257.26
Bank and cash balance.....		245.22	50.00	778.35	2,348.40
Securities and investments.....	1,500.00				
Accounts receivable.....	465.78	708.31	44,777.42	609.39	286.94
Inventories.....		188.23	6,056.48		
Sinking fund on local debentures..					
Equity in hydro systems.....	378.11	2,436.30	141,247.30	6,018.18	1,505.10
Other assets.....				19.15	
Total assets.....	6,442.94	24,454.45	790,225.87	36,307.79	13,397.70
Deficit.....		1,024.35			
Total.....	6,442.94	25,478.80	790,225.87	36,307.79	13,397.70
LIABILITIES					
Debenture balance.....	4,538.13	16,798.77	195,437.99	9,149.22	7,383.60
Accounts payable.....		858.50	16,840.68		
Bank overdraft.....	146.68		31,889.80		
Other liabilities.....			30,025.20		
Total liabilities.....	4,684.81	17,657.27	274,193.67	9,149.22	7,383.60
RESERVES					
For equity in H.E.P.C. systems....	378.11	2,436.30	141,247.30	6,018.18	1,505.10
For depreciation.....	407.00	2,184.00	86,422.37	4,578.33	860.73
Other reserves.....			548.40		
Total reserves.....	785.11	4,620.30	228,218.07	10,596.51	2,365.83
SURPLUS					
Debentures paid.....	909.64	3,201.23	74,562.01	4,200.58	616.40
Local sinking fund.....					
Additional operating surplus.....	63.38		213,252.12	12,361.48	3,031.87
Total surplus.....	973.02	3,201.23	287,814.13	16,562.06	3,648.27
Total liabilities, reserves and surplus	6,442.94	25,478.80	790,225.87	36,307.79	13,397.70
Percentage of net debt to total assets	77.2	80.1	42.3	30.2	62.1

"A"—Continued

Hydro Municipalities as at December 31, 1929

Clinton 1,936	Comber P.V.	Cottam P.V.	Courtright 417	Dashwood P.V.	Delaware P.V.	Dorchester P.V.	Drayton 574
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,668.78							
7,544.43							
21,768.38	6,233.94	8,791.13	6,511.71	3,297.81	3,054.97	5,569.14	9,074.92
7,056.32	3,222.00	1,538.31	1,225.40	1,593.58	766.83	2,845.91	2,580.60
8,371.02	2,189.92	1,541.63	874.17	1,293.05	841.69	2,324.67	3,156.59
1,217.29	272.93	359.43	425.08	342.52	112.53	432.21	673.50
4,067.07	957.54	206.27	558.67	291.87	203.81	328.41	388.37
10,658.09							
67,351.38	12,876.33	12,436.77	9,595.03	6,818.83	4,979.83	11,500.34	15,873.98
3,045.71	2,645.69	910.32		966.92	887.01	2,990.79	
2,292.12	415.77	299.41	560.06	268.84	2,500.00	2,000.00	8,000.00
1,833.96	7.10				593.28	1,067.66	56.00
17,428.21							
16,500.61	7,468.73	668.46	1,655.98	3,108.96	930.37	2,419.24	3,966.91
108,451.99	23,413.62	14,314.96	11,811.07	11,163.55	9,890.49	19,978.03	27,896.89
108,451.99	23,413.62	14,314.96	11,811.07	11,163.55	9,890.49	19,978.03	27,896.89
44,500.00	3,385.51	8,182.48	5,688.17	2,541.88	2,700.65	3,031.75	7,474.41
1,276.92		10.01	841.82		334.71		1,548.50
197.50		70.00	86.41				221.66
45,974.42	3,385.51	8,262.49	6,616.40	2,541.88	3,035.36	3,031.75	9,244.57
16,500.61	7,468.73	668.46	1,655.98	3,108.96	930.37	2,419.24	3,966.91
16,359.11	3,637.11	1,200.55	304.15	1,209.51	1,180.32	1,977.25	3,448.56
32,859.72	11,105.84	1,869.01	1,960.13	4,318.47	2,110.69	4,396.49	7,415.47
17,428.21	4,314.49	817.74	2,450.18	858.12	1,299.35	1,268.25	2,025.59
12,189.64	4,607.78	3,365.72	784.36	3,445.08	3,445.09	11,281.54	9,211.26
29,617.85	8,922.27	4,183.46	3,234.54	4,303.20	4,744.44	12,549.79	11,236.85
108,451.99	23,413.62	14,314.96	11,811.07	11,163.55	9,890.49	19,978.03	27,896.89
38.3	21.2	60.5	65.1	31.5	33.8	17.3	38.6

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Dresden	Drumbo P.V.	Dublin P.V.	Dundas	Dunnville
Population.....	1,424			5,009	3,386
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....				9,235.96	3,339.68
Substation equipment.....	523.00			13,396.22	241,150.88
Distribution system, overhead.....	14,051.13	4,230.68	5,110.54	44,085.41	31,821.14
Distribution system, underground.....					
Line transformers.....	6,521.54	1,417.47	688.05	17,261.14	15,472.57
Meters.....	5,512.63	1,694.79	874.11	18,938.85	12,951.92
Street light equipment, regular....	1,091.61	253.02	544.86	1,903.20	3,147.66
Street light equipment, ornamental.....					4,767.47
Miscellaneous construction expense.....	531.03	266.20	787.06	7,262.05	5,715.88
Steam or hydraulic plant.....					
Old plant.....	4,815.01			1,867.38	10,717.62
Total plant.....	33,045.95	7,862.16	8,004.62	113,950.21	112,084.82
Bank and cash balance.....	409.92	444.20		102.87	
Securities and investments.....	4,000.00			10,500.00	10,000.00
Accounts receivable.....	328.39	726.95	25.09	6,701.52	8,643.02
Inventories.....	435.52	116.06		614.65	308.15
Sinking fund on local debentures.....					
Equity in hydro systems.....	10,951.57	2,222.32	2,085.22	54,336.48	18,132.21
Other assets.....				1,719.67	
Total assets.....	49,171.35	11,371.69	10,114.93	187,925.40	149,168.20
Deficit.....			397.22		
Total.....	49,171.35	11,371.69	10,512.15	187,925.40	149,168.20
LIABILITIES					
Debenture balance.....	4,390.35	3,038.43	2,975.51	33,581.38	59,086.57
Accounts payable.....	595.28		77.76		9,382.65
Bank overdraft.....			7.72		2,268.37
Other liabilities.....	75.00			1,719.67	504.08
Total liabilities.....	5,060.63	3,038.43	3,060.99	35,301.05	71,241.67
RESERVES					
For equity in H.E.P.C. systems....	10,951.57	2,222.32	2,085.22	54,336.48	18,132.21
For depreciation.....	5,828.08	2,281.63	2,141.45	31,985.18	22,223.60
Other reserves.....					
Total reserves.....	16,779.65	4,503.95	4,226.67	86,321.66	40,355.81
SURPLUS					
Debentures paid.....	11,847.90	1,461.57	3,224.49	19,418.62	16,413.43
Local sinking fund.....					
Additional operating surplus.....	15,483.17	2,367.74		46,884.07	21,157.29
Total surplus.....	27,331.07	3,829.31	3,224.49	66,302.69	37,570.72
Total liabilities, reserves and surplus.....	49,171.35	11,371.69	10,512.15	187,925.40	149,168.20
Percentage of net debt to total assets.....	13.2	33.2	38.1	26.4	54.4

"A"—Continued

Hydro Municipalities as at December 31, 1929

Dutton 802	East Windsor 13,531	Elmira 2,692	Elora 1,216	Embro 431	Erieau 201	Erie Beach 21	Essex 1,821
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
		5,794.43	1,494.54				
7,780.92	155,394.59	27,053.65	15,358.27	8,415.57	7,543.04	1,834.77	29,897.89
3,244.81	63,644.06	14,170.40	6,948.65	2,710.75	1,280.72	613.17	10,881.96
3,239.98	59,341.11	11,823.04	5,238.15	1,776.44	1,742.20	568.08	9,344.01
577.88		1,269.28	943.98	465.01	240.10		1,312.97
	45,196.35						
338.94	3,439.78	4,134.22	1,433.94	69.45	379.90	375.03	2,101.55
		2,168.08	1,425.47	429.25			
15,182.53	327,015.89	66,413.10	32,843.00	13,866.47	11,185.96	3,391.05	53,538.38
		770.33	2,261.37	171.94		273.93	
5,000.00		1,000.00	3,000.00				9,000.00
347.99	68,882.31	2,071.66	2,288.17	239.20	720.84	247.00	3,639.21
39.85		180.85	776.83				
6,822.89	69,976.06	30,053.06	14,411.93	4,221.12	1,289.29	346.07	8,771.43
							674.77
27,393.26	465,874.26	100,489.00	55,581.30	18,498.73	13,196.09	4,258.05	75,623.79
27,393.26	465,874.26	100,489.00	55,581.30	18,498.73	13,196.09	4,258.05	75,623.79
6,009.23	123,487.29	17,798.52	6,469.82	4,812.67	5,733.77	3,014.44	20,766.39
75.45	9,072.25				232.96	75.94	2,067.21
412.80					345.55		790.03
11.84	58,192.61	555.69					596.75
6,509.32	190,752.15	18,354.21	6,469.82	4,812.67	6,312.28	3,090.38	24,220.38
6,822.89	69,976.06	30,053.06	14,411.93	4,221.12	1,289.29	346.07	8,771.43
4,687.60	30,689.52	14,339.46	8,256.86	3,479.37	742.50	233.00	6,565.74
11,510.49	100,665.58	44,392.52	22,668.79	7,700.49	2,031.79	579.07	15,337.17
2,398.26	25,512.71	7,201.48	6,530.18	2,687.33	1,149.36	285.56	1,733.61
6,975.19	148,943.82	30,540.79	19,912.51	3,298.24	3,702.66	303.04	34,332.63
9,373.45	174,456.53	37,742.27	26,442.69	5,985.57	4,852.02	588.60	36,066.24
27,393.26	465,874.26	100,489.00	55,581.30	18,498.73	13,196.09	4,258.05	75,623.79
31.6	48.2	26.1	15.7	33.7	53	78.9	36.2

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Etobicoke Twp.	Exeter	Fergus	Fonthill	Forest
Population.....	13,633	1,583	2,080	727	1,415
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	23,801.00	3,281.59			5,603.68
Substation equipment.....					
Distribution system, overhead....	272,637.42	21,302.80	29,622.82	9,868.11	20,035.26
Distribution system, underground.					
Line transformers.....	61,520.78	8,556.90	11,122.01	4,408.80	7,370.45
Meters.....	52,621.58	7,125.64	10,238.91	4,111.35	8,551.95
Street light equipment, regular...	12,182.31	932.04	1,740.07	885.24	2,339.64
Street light equipment, ornamental					
Miscellaneous construction expense	7,046.77	2,825.05	1,114.59	3,525.63	1,688.89
Steam or hydraulic plant.....					
Old plant.....			2,546.59		11,042.87
Total plant.....	429,809.86	44,024.02	56,384.99	22,799.13	56,632.74
Bank and cash balance.....	4,045.57	5,803.79	2,004.83	293.39	2,047.11
Securities and investments.....		3,000.00			5,500.00
Accounts receivable.....	21,788.22	1,992.65	3,073.91	599.12	3,400.09
Inventories.....	233.47	3,194.41	178.51		3,327.52
Sinking fund on local debentures..					
Equity in hydro systems.....	46,496.78	14,298.17	15,629.23	1,100.56	9,344.89
Other assets.....					
Total assets.....	502,373.90	72,313.04	77,271.47	24,792.20	80,252.35
Deficit.....					
Total.....	502,373.90	72,313.04	77,271.47	24,792.20	80,252.35
LIABILITIES					
Debenture balance.....	193,367.20	11,787.23	28,897.39	20,682.86	14,589.92
Accounts payable.....	50,864.39		3,315.99		7.17
Bank overdraft.....					
Other liabilities.....	5,699.10		71.35	189.53	
Total liabilities.....	249,930.69	11,787.23	32,284.73	20,872.39	14,597.09
RESERVES					
For equity in H.E.P.C. systems...	46,496.78	14,298.17	15,629.23	1,100.56	9,344.89
For depreciation.....	46,022.88	8,738.37	3,445.36	837.35	10,698.36
Other reserves.....		107.21			50.00
Total reserves.....	92,519.66	23,143.75	19,074.59	1,937.91	20,093.25
SURPLUS					
Debentures paid.....	47,632.80	8,212.82	13,102.61	1,817.14	19,810.08
Local sinking fund.....					
Additional operating surplus.....	112,290.75	29,169.24	12,809.54	164.76	25,751.93
Total surplus.....	159,923.55	37,382.06	25,912.15	1,981.90	45,562.01
Total liabilities, reserves and surplus	502,373.90	72,313.04	77,271.47	24,792.20	80,252.35
Percentage of net debt to total assets	54.8	20.3	52.4	88.1	20.6

"A"—Continued

Hydro Municipalities as at December 31, 1929

Galt 12,977	George- town 1,973	Glencoe 793	Goderich 4,264	Granton P.V.	Guelph 19,202	Hagers- ville 1,290	Hamilton 127,447
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
198,909.31	12.00		12,957.48		12,546.55		899,336.29
169,439.27			28,593.44		126,704.74	864.37	526,533.00
214,183.65	25,922.28	19,981.22	57,512.08	4,110.23	170,797.22	17,986.81	854,232.22
						8,785.36	477,385.94
51,393.88	15,567.07	4,371.59	19,625.24	1,533.55	75,992.42	7,197.47	465,641.47
67,009.90	11,620.22	4,068.48	15,390.78	1,456.26	83,666.62	659.82	473,431.28
11,115.53	1,362.22	1,647.22	4,825.17	163.37	37,817.40		131,707.58
58,828.09							
22,844.11	2,650.54	3,577.97	5,079.54	113.08	15,921.56	643.11	187,266.73
	2,209.80		14,622.15				24,665.69
793,723.74	59,344.13	33,646.48	158,605.88	7,376.49	523,446.51	36,136.94	4,040,200.20
	1,556.49	686.77		1,445.79	11,217.78	5,154.84	55,493.72
	11,832.79			2,000.00		7,000.00	
54,157.44	2,334.45	2,596.03	5,246.77	320.67	40,356.61	3,142.25	317,170.34
12,139.52	604.00		1,860.64		23,611.34	58.00	88,431.65
150,732.98					34,608.57		472,976.91
200,064.87	34,174.89	6,011.99	44,460.03	3,066.45	232,084.13	30,265.73	1,113,961.28
2,181.45			1,293.98				8,923.86
1,213,000.00	109,846.75	42,941.27	211,467.30	14,209.40	865,324.94	81,757.76	6,097,157.96
1,213,000.00	109,846.75	42,941.27	211,467.30	14,209.40	865,324.94	81,757.76	6,097,157.96
385,908.84	13,505.38	12,189.18	38,507.14	2,569.68	69,568.91	4,558.32	2,762,591.81
23,641.42	389.28	18.50	12,581.77	840.41	20,382.11	160.49	273,586.02
39,248.36			1,954.13				
52,579.18			1,293.98		2,631.50		134,446.26
501,377.80	13,894.66	12,207.68	54,337.02	3,410.09	92,582.52	4,718.81	3,170,624.09
200,064.87	34,174.89	6,011.99	44,460.03	3,066.45	232,084.13	30,265.73	1,113,961.28
150,229.58	15,841.35	3,900.60	39,630.24	1,297.61	58,651.07	4,829.45	604,571.48
500.29					220.00		162.50
350,794.74	50,016.24	9,912.59	84,090.27	4,364.06	290,955.20	35,095.18	1,718,695.26
79,513.93	6,494.62	7,923.70	37,580.91	930.32	75,431.08	3,441.68	450,222.89
150,732.98					34,608.57		472,976.91
130,580.55	39,441.23	12,897.30	35,459.10	5,504.93	371,747.57	38,502.09	284,638.81
360,827.46	45,935.85	20,821.00	73,040.01	6,435.25	481,787.22	41,943.77	1,207,838.61
1,213,000.00	109,846.75	42,941.27	211,467.30	14,209.40	865,324.94	81,757.76	6,097,157.96
40.7	18.4	33.1	32.5	30.6	9.7	9.2	59.8

STATEMENT

Balance Sheets of Electrical Departments of

**NIAGARA
SYSTEM—Continued**

Municipality.....	Harriston	Harrow P.V.	Hensall	Hespeler	Highgate
Population.....	1,145		748	2,748	359
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....				3,774.47	
Substation equipment.....	600.00			20,083.58	
Distribution system, overhead....	20,320.02	11,212.78	12,370.10	26,697.85	6,224.23
Distribution system, underground..					
Line transformers.....	7,299.78	7,373.52	4,192.33	15,860.88	2,349.25
Meters.....	6,473.90	5,312.78	3,165.80	11,699.54	1,634.80
Street light equipment, regular....	1,141.41	644.18	605.33	3,595.69	343.16
Street light equipment, ornamental				976.50	
Miscellaneous construction expense	861.71	95.42	500.45	587.07	551.98
Steam or hydraulic plant.....					
Old plant.....	1,001.43		400.00	2,095.25	
Total plant.....	37,698.25	24,638.68	21,234.01	85,370.83	11,103.42
Bank and cash balance.....		3,857.34	4,737.33	1,089.88	1,140.83
Securities and investments.....				3,000.00	2,000.00
Accounts receivable.....	1,354.89	4,786.79	825.39	5,111.21	484.67
Inventories.....			4.22	237.66	
Sinking fund on local debentures..					
Equity in hydro systems.....	11,794.29	4,970.97	4,851.29	31,054.05	3,855.04
Other assets.....					
Total assets.....	50,847.43	38,253.78	31,652.24	125,863.63	18,583.96
Deficit.....					
Total.....	50,847.43	38,253.78	31,652.24	125,863.63	18,583.96
LIABILITIES					
Debenture balance.....	14,747.63	10,161.18	8,758.11	19,893.60	3,665.30
Accounts payable.....	1,500.00	1,382.49	699.05	127.19	
Bank overdraft.....	2,145.20				
Other liabilities.....		130.00	22.50	546.02	
Total liabilities.....	18,392.83	11,673.67	9,479.66	20,566.81	3,665.30
RESERVES					
For equity in H.E.P.C. systems...	11,794.29	4,970.97	4,851.29	31,054.05	3,855.04
For depreciation.....	2,705.25	1,809.28	3,483.73	12,232.03	2,606.99
Other reserves.....					
Total reserves.....	14,499.54	6,780.25	8,335.02	43,286.08	6,462.03
SURPLUS					
Debentures paid.....	10,503.63	1,838.82	3,241.89	32,676.91	1,334.70
Local sinking fund.....					
Additional operating surplus.....	7,451.43	17,961.04	10,595.67	29,333.83	7,121.93
Total surplus.....	17,955.06	19,799.86	13,837.56	62,010.74	8,456.63
Total liabilities, reserves and surplus	50,847.43	38,253.78	31,652.24	125,863.63	18,583.96
Percentage of net debt to total assets	47.1	35.1	35.4	21.7	24.9

"A"—Continued

Hydro Municipalities as at December 31, 1929

Humberstone 1,766	Ingersoll 5,150	Jarvis 460	Kingsville 2,427	Kitchener 26,709	Lambeth P.V.	La Salle 623	Leamington 5,072
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
15,064.45	25,374.39		7,587.04	51,871.96			11,183.64
24,204.88	46,137.91	8,680.73	25,235.93	204,414.26			7,398.18
				277,262.69	6,412.47	17,493.78	45,959.31
				34,564.60			6,626.63
8,018.36	24,744.36	2,526.96	11,642.28	148,262.94	1,670.83	6,167.15	21,795.32
7,402.88	24,178.32	1,850.95	11,757.94	154,402.79	1,744.72	3,825.57	21,302.08
861.20	2,919.52	821.29	1,162.55	54,360.24	226.70	928.13	1,284.93
	4,597.59		19,200.00				15,178.49
3,084.62	11,063.18	536.27	25.47	17,800.96	300.71	1,864.23	1,381.95
	19,633.99			52,398.91			
43,571.94	173,713.71	14,416.20	76,611.21	995,339.35	10,355.43	30,278.86	132,110.53
3,945.72	8,034.65	2,144.31	818.30		911.86	973.68	100.00
	15,143.52		12,000.00	15,000.00			2,000.00
717.74	6,949.86	479.36	4,419.29	76,153.13	1,101.70	1,596.12	12,800.51
	2,409.63			13,205.18			4.85
	49,799.89						
4,737.45	66,154.18	4,146.08	12,188.17	433,702.15	3,146.40	2,846.24	18,730.10
			1,264.97	86,939.84			
52,972.85	322,205.44	21,185.95	107,301.94	1,620,339.65	15,515.39	35,694.90	165,745.99
52,972.85	322,205.44	21,185.95	107,301.94	1,620,339.65	15,515.39	35,694.90	165,745.99
25,400.00	79,800.00	8,425.80	31,111.35	280,175.90	2,936.70	13,656.71	40,644.39
10.00			3,158.99	45,907.16	1,734.40		3,119.80
				1,282.46			351.37
1,194.85	4,597.59		20,298.28	86,939.84		469.94	17,158.77
26,604.85	84,397.59	8,425.80	54,568.62	414,305.36	4,671.10	14,126.65	61,274.33
4,737.45	66,154.18	4,146.08	12,188.17	433,702.15	3,146.40	2,846.24	18,730.10
1,877.45	23,076.66	1,305.22	10,423.77	178,665.48	1,681.96	2,351.94	10,951.11
				15,362.38			
6,614.90	89,230.84	5,451.30	22,611.94	627,730.01	4,828.36	5,198.18	29,681.21
6,600.00		2,074.20	2,388.65	231,974.10	1,063.30	1,843.29	7,355.61
	49,799.89						
13,153.10	98,777.12	5,234.65	27,732.73	346,330.18	4,952.63	14,526.78	67,434.84
19,753.10	148,577.01	7,308.85	30,121.38	578,304.28	6,015.93	16,370.07	74,790.45
52,972.85	322,205.44	21,185.95	107,301.94	1,620,339.65	15,515.39	35,694.90	165,745.99
55.2	16.8	49.4	57.4	34.9	37.8	43	41.7

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Listowel	London	London Twp. 7,448	Lucan 573	Lynden P.V.
Population.....	2,346	66,132			
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	1,416.07	408,817.68			241.18
Substation equipment.....		877,816.66			
Distribution system, overhead....	34,505.52	694,420.47	14,753.06	10,378.81	3,841.34
Distribution system, underground.	549.14	189,634.72			
Line transformers.....	15,448.22	199,949.19	4,746.63	3,782.49	1,845.11
Meters.....	14,773.75	288,883.63	3,251.41	2,973.45	1,446.49
Street light equipment, regular...	1,634.92	52,621.30	695.48	399.07	248.71
Street light equipment, ornamental	1,348.66	17,561.10			
Miscellaneous construction expense	1,881.08	79,252.16	478.71	484.77	193.57
Steam or hydraulic plant.....					
Old plant.....	4,745.30		1,733.80	2,860.45	
Total plant.....	76,302.66	2,808,956.91	25,659.09	20,879.04	7,816.40
Bank and cash balance.....	5,152.51	6,339.76	4,407.15	10.00	
Securities and investments.....				5,000.00	2,000.00
Accounts receivable.....	4,381.95	331,310.26	2,557.01	555.51	291.49
Inventories.....		84,879.43			
Sinking fund on local debentures..		281,824.19			
Equity in hydro systems.....	23,789.86	783,830.02	3,178.00	7,695.91	6,082.61
Other assets.....					
Total assets.....	109,626.98	4,297,140.57	35,801.25	34,140.46	16,190.50
Deficit.....					
Total.....	109,626.98	4,297,140.57	35,801.25	34,140.46	16,190.50
LIABILITIES					
Debenture balance.....	14,167.06	1,163,535.43	14,562.64	5,603.90	3,229.24
Accounts payable.....	2,500.92	105,971.74	2,899.47	102.84	
Bank overdraft.....		49,238.37		277.67	15.17
Other liabilities.....	1,466.16	983.60		45.00	
Total liabilities.....	18,134.14	1,319,729.14	17,462.11	6,029.41	3,244.41
RESERVES					
For equity in H.E.P.C. systems...	23,789.86	783,830.02	3,178.00	7,695.91	6,082.61
For depreciation.....	18,234.02	647,670.73	1,895.74	4,801.45	1,965.96
Other reserves.....		51,014.03			
Total reserves.....	42,023.88	1,482,514.78	5,073.74	12,497.36	8,048.57
SURPLUS					
Debentures paid.....	29,022.83	418,364.57	4,437.36	5,609.72	1,265.76
Local sinking fund.....		281,824.19			
Additional operating surplus.....	20,446.13	794,707.89	8,828.04	10,003.97	3,631.76
Total surplus.....	49,468.96	1,494,896.65	13,265.40	15,613.69	4,897.52
Total liabilities, reserves and surplus	109,626.98	4,297,140.57	35,801.25	34,140.46	16,190.50
Percentage of net debt to total assets	21.1	26.4	53.5	22.8	32.1

"A"—Continued

Hydro Municipalities as at December 31, 1929

Markham 956	Merlin P.V.	Merritton 2,556	Milton 1,875	Milverton 1,025	Mimico 5,876	Mitchell 1,574	Moorefield P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
		350.00		237.20	13,588.87	12,649.72	
		32,179.73	11,868.94		38,196.44	21,287.83	
10,948.05	7,920.52	23,545.94	19,227.92	10,956.42	63,882.96	25,928.13	2,991.03
5,036.50	3,274.17	5,203.31	11,248.70	7,565.80	22,953.68	7,743.84	990.72
4,852.04	2,235.70	8,735.35	11,340.06	4,734.57	24,840.02	10,847.91	1,065.12
582.09	555.64	1,873.14	1,011.17	669.56	6,635.04	2,469.33	295.88
1,318.86	455.36	2,107.93	4,460.62	934.33	5,337.62	823.06	348.35
	241.85		4,065.85			1,500.00	
22,737.54	14,683.24	73,995.40	63,223.26	25,097.88	175,434.63	83,249.82	5,691.10
348.28	1,598.05	752.07		1,492.90	100.00	5,884.64	2,351.09
4,691.96	6,000.00			7,000.00			
1,871.69	1,741.14	5,667.01	14,534.83	6,633.10	6,921.58	1,462.08	200.91
		15.66	6,896.66			4,412.01	26.50
4,935.55	4,326.67	20,169.48	43,922.42	19,197.70	42,951.32	15,941.91	2,139.50
				50.00	316.25		
34,585.02	28,349.10	100,599.62	128,577.17	59,471.58	225,723.78	110,950.46	10,409.10
34,585.02	28,349.10	100,599.62	128,577.17	59,471.58	225,723.78	110,950.46	10,409.10
4,989.31	10,215.48	25,624.42	12,348.50	3,970.22	81,645.88	1,663.42	2,410.92
	1,214.62	3,821.58	43.29	5,823.85	7,844.02	1,183.32	60.00
			1,634.90		346.53		
			8.50	2,838.67	3,075.00		
4,989.31	11,430.10	29,446.00	14,035.19	12,632.74	92,911.43	2,846.74	2,470.92
4,935.55	4,326.67	20,169.48	43,922.42	19,197.70	42,951.32	15,941.91	2,139.50
3,419.31	995.70	7,745.68	13,022.43	3,359.21	29,275.97	24,402.85	1,410.84
			239.37				
8,354.86	5,322.37	27,915.16	57,184.22	22,556.91	72,227.29	40,344.76	3,550.34
6,384.32	3,148.73	6,561.79	20,364.48	5,529.78	25,354.12	20,631.80	2,089.08
14,856.53	8,447.90	36,676.67	36,993.28	18,752.15	35,230.94	47,127.16	2,298.76
21,240.85	11,596.63	43,238.46	57,357.76	24,281.93	60,585.06	67,758.96	4,387.84
34,585.02	28,349.10	100,599.62	128,577.17	59,471.58	225,723.78	110,950.46	10,409.10
16.8	47.6	36.6	16.5	31.4	50.8	3	29.8

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Mount Brydges P.V.	Newbury 288	New Hamburg 1,446	New Toronto 5,327	Niagara Falls 19,013
Population.....					
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....			2,513.19	39,093.82	127,953.15
Substation equipment.....			1,167.55		186,533.03
Distribution system, overhead....	6,008.55	6,114.60	21,870.64	66,146.26	181,184.53
Distribution system, underground..					
Line transformers.....	1,709.69	1,036.62	6,540.97	21,364.29	150,992.86
Meters.....	2,039.28	1,037.42	7,961.28	22,612.85	112,059.29
Street light equipment, regular...	526.99	817.42	1,661.93	9,129.84	23,088.03
Street light equipment, ornamental					87,236.97
Miscellaneous construction expense	152.82	485.13	1,614.27	4,670.11	14,955.28
Steam or hydraulic plant.....					
Old plant.....		348.22	5,242.56		19,809.04
Total plant.....	10,437.33	9,839.41	48,572.39	163,017.17	903,812.18
Bank and cash balance.....	2,065.52	946.74		2,171.11	17,466.52
Securities and investments.....	2,000.00				
Accounts receivable.....	1,009.96	866.61	1,881.60	18,097.05	2,547.54
Inventories.....		7.52	1,978.80		367.95
Sinking fund on local debentures..					
Equity in hydro systems.....	2,241.64	1,384.77	18,880.47	142,168.37	195,975.33
Other assets.....				3,231.33	
Total assets.....	17,754.45	13,045.05	71,313.26	328,685.03	1,120,169.52
Deficit.....					
Total.....	17,754.45	13,045.05	71,313.26	328,685.03	1,120,169.52
LIABILITIES					
Debenture balance.....	2,914.52	6,300.00	9,726.24	5,151.37	364,641.50
Accounts payable.....	208.68		2,112.60		19,698.91
Bank overdraft.....			92.46		29,066.35
Other liabilities.....			14.00	3,231.33	13,264.54
Total liabilities.....	3,123.20	6,300.00	11,945.30	8,382.70	426,671.30
RESERVES					
For equity in H.E.P.C. systems..	2,241.64	1,384.77	18,880.47	142,168.37	195,975.33
For depreciation.....	1,141.44	1,537.49	9,166.44	26,498.05	98,796.42
Other reserves.....					4,851.98
Total reserves.....	3,383.08	2,922.26	28,046.91	168,666.42	299,623.73
SURPLUS					
Debentures paid.....	1,305.48	3,454.39	8,002.84	2,848.63	250,601.50
Local sinking fund.....					
Additional Operating Surplus....	9,942.69	368.40	23,318.21	148,787.28	143,272.99
Total surplus.....	11,248.17	3,822.79	31,321.05	151,635.91	393,874.49
Total liabilities, reserves and surplus	17,754.45	13,045.05	71,313.26	328,685.03	1,120,169.52
Percentage of net debt to total assets	20.1	54	22.8	4.5	46.2

"A"—Continued

Hydro Municipalities as at December 31, 1929

Niagara-on-the-Lake 1,606	Norwich 1,279	Oil Springs 417	Otterville P.V.	Palmerston 1,650	Paris 4,063	Parkhill 959	Petrolia 2,516
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,312.35	4,157.99	1,042.00	.....	.....	8,133.56	.....	900.00
16,048.36	.....	.....	.....	691.88	23,934.01	.....	2,403.55
.....	9,636.94	12,145.54	5,288.29	25,246.14	48,250.19	15,762.02	36,658.49
21,571.43	.....	.....	.....	.....	.....	.....	.....
5,330.08	4,519.42	5,256.88	2,670.00	8,528.53	16,906.47	4,312.17	24,411.98
6,228.47	6,333.51	3,257.22	2,126.51	8,058.26	18,257.57	3,796.98	14,487.99
1,121.10	1,152.15	305.72	378.37	1,914.11	3,843.10	898.23	985.28
.....	3,553.37	.....	.....	.....	9,636.85	.....	3,864.07
1,616.98	2,207.65	3,920.30	142.00	1,848.89	281.74	1,464.19	7,111.79
.....
.....	3,509.82	.....	.....	4,018.71	16,684.76	.....	3,389.94
54,228.77	35,070.85	25,927.66	10,605.17	50,306.52	145,928.25	26,233.59	94,213.09
50.00	2,593.40	479.80	5,344.29	377.06	25.00	42.74	1,420.64
.....	3,000.00	.....	.....	.....	8,000.00	.....	8,400.00
2,343.06	2,174.15	2,168.36	545.64	2,076.85	6,676.85	932.90	4,902.64
1,268.26	1,507.20	316.01	.....	174.37	.....	.....	1,689.80
.....	.....	.....	.....	.....	20,203.11	.....	.....
9,261.15	14,276.23	9,880.97	2,751.04	14,327.66	42,104.88	5,819.61	36,915.30
.....
67,151.24	58,621.83	38,772.80	19,246.14	67,262.46	222,938.09	33,028.84	147,541.47
.....
67,151.24	58,621.83	38,772.80	19,246.14	67,262.46	222,938.09	33,028.84	147,541.47
18,862.21	8,129.86	9,089.15	1,929.22	7,325.10	37,036.83	9,698.69	32,495.19
3,044.63	.....	980.07	25.00	1,921.48	2,000.00	184.79	1,453.11
4,807.44	.....	.....	.....	.....	210.19	.....	.....
.....	.....	.....	.....	1,472.53	.....	38.00	65.00
26,714.28	8,129.86	10,069.22	1,954.22	10,719.11	39,247.02	9,921.48	34,013.30
.....
9,261.15	14,276.23	9,880.97	2,751.04	14,327.66	42,104.88	5,819.61	36,915.30
3,932.72	2,558.16	4,974.36	2,586.05	6,043.48	41,974.75	2,829.59	18,779.27
.....	.....	.....	.....	.....	.....	.....	475.49
13,193.87	16,834.39	14,855.33	5,337.09	20,371.14	84,079.63	8,649.20	56,170.06
.....
11,811.29	5,626.14	7,632.16	2,570.78	19,674.90	54,963.17	4,931.33	17,504.81
.....	.....	.....	.....	.....	20,203.11	.....	.....
15,431.80	28,031.44	6,216.09	9,384.05	16,497.31	24,445.16	9,536.83	39,853.30
27,243.09	33,657.58	13,848.25	11,954.83	36,172.21	99,611.44	14,458.16	57,358.11
67,151.24	58,621.83	38,772.80	19,246.14	67,262.46	222,938.09	33,028.84	147,541.47
46.1	18.3	34.9	11.8	20.2	11.9	36.5	30.7

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Plattsville	Point Edward	Port Colborne	Port Credit	Port Dalhousie
Population.....	P.V.	1,371	5,203	1,381	1,580
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....			22,120.24	675.00	
Substation equipment.....					
Distribution system, overhead....	3,256.80	18,880.77	74,125.81	21,718.27	15,041.97
Distribution system, underground.					
Line transformers.....	1,205.47	5,773.49	21,884.83	7,610.62	7,179.73
Meters.....	1,679.38	4,713.73	19,820.49	7,462.58	8,789.30
Street light equipment, regular...	147.15	1,914.89	4,374.64	4,719.64	912.88
Street light equipment, ornamental					
Miscellaneous construction expense	535.92	503.14	7,153.83	799.11	2,369.99
Steam or hydraulic plant.....					
Old plant.....			9,929.60		6,018.38
Total plant.....	6,824.72	31,786.02	159,409.44	42,985.22	40,312.25
Bank and cash balance.....	169.16	3,842.45	5,742.12	3,808.76	1,226.60
Securities and investments.....		10,000.00			3,000.00
Accounts receivable.....	184.38	1,559.11	13,780.41	2,646.54	3,421.43
Inventories.....			3,150.92		
Sinking fund on local debentures..					1,654.19
Equity in hydro systems.....	3,316.20	14,657.11	26,855.40	10,873.46	9,073.38
Other assets.....				71.26	
Total assets.....	10,494.46	61,844.69	208,938.29	60,385.24	58,687.85
Deficit.....	113.57				
Total.....	10,608.03	61,844.69	208,938.29	60,385.24	58,687.85
LIABILITIES					
Debenture balance.....	3,536.13	11,468.74	92,726.50	10,402.04	13,950.18
Accounts payable.....		3,066.35	26,059.90	2,509.88	
Bank overdraft.....					
Other liabilities.....			1,180.00	55.00	
Total liabilities.....	3,536.13	14,535.09	119,966.40	12,966.92	13,950.18
RESERVES					
For equity in H.E.P.C. systems...	3,316.20	14,657.11	26,855.40	10,873.46	9,073.38
For depreciation.....	2,054.83	6,469.39	15,974.71	9,376.92	3,739.14
Other reserves.....					
Total reserves.....	5,371.03	21,126.50	42,830.11	20,250.38	12,812.52
SURPLUS					
Debentures paid.....	1,700.87	5,531.26	28,273.50	4,097.96	8,549.82
Local sinking fund.....					1,654.19
Additional operating surplus.....		20,651.84	17,868.28	23,069.98	21,721.14
Total surplus.....	1,700.87	26,183.10	46,141.78	27,167.94	31,925.15
Total liabilities, reserves and surplus	10,608.03	61,844.69	208,938.29	60,385.24	58,687.85
Percentage of net debt to total assets	49.3	30.8	.65.9	26.2	25.6

"A"—Continued

Hydro Municipalities as at December 31, 1929

Port Dover 1,572	Port Rowan 669	Port Stanley 618	Preston 5,697	Princeton P.V.	Queenston P.V.	Richmond Hill 1,170	Ridgetown 1,986
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
248.75		1,512.25					
25,767.85	9,182.02	17,307.24	37,923.27	3,497.58	6,939.24	600.00	1,024.24
			86,779.88			7,701.54	20,308.47
8,689.66	1,676.62	8,404.76	44,575.73	1,901.62	1,541.35	6,614.89	9,545.45
5,709.62	1,590.27	7,598.20	37,015.18	1,111.43	1,483.49	4,319.95	8,964.84
2,088.18	888.04	1,178.54	5,292.47	146.60	416.29	1,311.72	2,752.77
2,698.71	681.53	5,817.19	7,084.96	64.35	1,948.71	19.13	1,431.73
		577.51	32,126.75				1,910.92
							5,088.46
45,202.77	14,018.48	42,395.69	250,798.24	6,721.58	12,329.08	20,567.23	51,026.88
163.71	185.91	549.81		1,884.83	165.54	4,564.89	50.00
		3,000.00					10,000.00
3,495.93	296.94	1,840.48	26,778.24	738.51	403.37	1,800.55	2,131.78
768.72			316.17	34.40		291.04	1,269.87
6,585.64	1,374.26	14,023.94	100,387.06	2,232.76	2,256.49	3,648.45	14,163.93
56,216.77	15,875.59	61,809.92	378,279.71	11,612.08	15,154.48	30,872.16	78,642.46
	4,593.05						
56,216.77	20,468.64	61,809.92	378,279.71	11,612.08	15,154.48	30,872.16	78,642.46
18,207.94	10,384.00	10,464.24	52,831.99	2,397.02	7,347.45	6,622.99	7,709.43
2,130.87	7,568.38		7,872.03				
			9,493.12				697.66
177.00		398.00	1,307.79				1,431.73
20,515.81	17,952.38	10,862.24	71,504.93	2,397.02	7,347.45	6,622.99	9,838.82
6,585.64	1,374.26	14,023.94	100,387.06	2,232.76	2,256.49	3,648.45	14,163.93
6,197.55	526.00	6,883.54	66,143.38	1,816.81	1,698.00	1,661.62	9,012.09
121.00							
12,904.19	1,900.26	20,907.48	166,530.44	4,049.57	3,954.49	5,310.07	23,176.02
10,792.06	616.00	8,485.76	79,968.01	1,152.98	2,152.55	5,577.01	11,746.56
12,004.71		21,554.44	60,276.33	4,012.51	1,699.99	13,362.09	33,881.06
22,796.77	616.00	30,040.20	140,244.34	5,165.49	3,852.54	18,939.10	45,627.62
56,216.77	20,468.64	61,809.92	378,279.71	11,612.08	15,154.48	30,872.16	78,642.46
41.3	123.8	22.7	25.7	25.5	57	24.3	15.3

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Riverside	Rockwood P.V.	Rodney	St. Cathar- ines 23,327	St. Clair Beach 136
Population.....	4,383		712		
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		79.00		41,950.94	
Substation equipment.....				86,878.65	
Distribution system, overhead....	85,109.02	6,902.18	9,384.28	179,949.88	7,221.97
Distribution system, underground..					
Line transformers.....	26,712.82	2,006.67	2,301.61	103,747.98	1,917.44
Meters.....	22,336.88	2,375.69	3,375.92	74,826.66	1,248.76
Street light equipment, regular....		544.02	586.17	16,738.95	
Street light equipment, ornamental..	16,586.74			27,448.87	
Miscellaneous construction expense	4,571.45	350.05	792.65	38,254.96	149.27
Steam or hydraulic plant.....					
Old plant.....			700.00	8,104.00	
Total plant.....	155,316.91	12,257.61	17,140.63	577,900.89	10,537.44
Bank and cash balance.....			172.12	3,181.93	
Securities and investments.....			6,000.00	26,969.06	
Accounts receivable.....	16,845.23	497.90		24,727.04	4,210.02
Inventories.....		233.70		478.60	
Sinking fund on local debentures..				54,108.48	
Equity in hydro systems.....	21,479.09	3,958.27	3,960.61	170,083.35	1,922.42
Other assets.....					
Total assets.....	193,641.23	16,947.48	27,273.36	857,449.35	16,669.88
Deficit.....					
Total.....	193,641.23	16,947.48	27,273.36	857,449.35	16,669.88
LIABILITIES					
Debenture balance.....	67,705.49		6,354.25	175,276.96	4,873.27
Accounts payable.....	3,513.12	800.00	82.75	81,365.35	288.48
Bank overdraft.....		111.67			
Other liabilities.....	16,586.74			27,448.87	
Total liabilities.....	87,805.35	911.67	6,437.00	284,091.18	5,161.75
RESERVES					
For equity in H.E.P.C. systems...	21,479.09	3,958.27	3,960.61	170,083.35	1,922.42
For depreciation.....	14,601.90	3,430.49	2,616.53	116,161.50	1,288.25
Other reserves.....				10,543.05	
Total reserves.....	36,080.99	7,388.76	6,577.14	296,787.90	3,210.67
SURPLUS					
Debentures paid.....	14,794.51	2,000.00	2,145.75	56,745.95	1,468.18
Local sinking fund.....				54,108.48	
Additional operating surplus.....	54,960.38	6,647.05	12,113.47	165,715.84	6,829.28
Total surplus.....	69,754.89	8,647.05	14,259.22	276,570.27	8,297.46
Total liabilities, reserves and surplus	193,641.23	16,947.48	27,273.36	857,449.35	16,669.88
Percentage of net debt to total assets	51	7	27.6	36.3	35

"A"—Continued

Hydro Municipalities as at December 31, 1929

St. George P.V.	St. Jacobs P.V.	St. Marys 4,023	St. Thomas 16,743	Sandwich 10,258	Sarnia 16,544	Scarboro' Twp. 15,325	Seaforth 1,670
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	3,000.00	49,300.69	364.48	95,343.91	16,852.69	1,251.57
.....	.....	24,187.39	105,848.42	3,363.18	188,136.86	.....	5,999.16
5,882.83	6,112.02	47,002.70	102,506.44	101,719.57	191,954.61	237,468.02	26,564.43
.....	.....	28,942.95	.....	.....	.....	.....	.....
2,504.42	2,223.59	17,493.49	50,957.83	42,120.83	78,123.05	49,402.68	6,977.08
2,643.87	2,211.16	20,388.38	63,928.33	48,469.29	70,075.91	54,258.27	7,691.88
228.77	311.60	3,464.11	13,608.02	9,953.04	11,843.02	18,362.47	1,414.55
.....	.....	7,538.63	.....	51,239.13	7,482.11	.....	.....
374.18	460.55	4,140.53	5,297.77	8,810.50	23,106.32	3,384.97	461.33
.....	.....	20,696.85	.....	4,148.96	55,810.22	.....	.....
11,634.07	11,318.92	140,373.45	427,929.08	270,188.98	721,876.01	379,729.10	50,360.00
523.82	1,438.92	.....	15,215.43	19,848.76	.....	8,229.31	1,288.47
2,000.00	3,000.00	.....	53,206.81	20,037.25	.....	.....	11,000.00
890.72	669.76	6,066.40	26,774.98	16,200.20	50,832.66	14,829.89	1,601.21
84.10	.....	3,638.87	441.39	236.86	6,855.09	.....	7,860.98
.....	.....	13,675.35	.....	.....	.....	.....	11,431.37
4,625.81	4,579.77	48,975.90	165,744.40	66,478.99	191,748.23	39,843.39	25,905.98
.....	150.00	.....	.....	.....	.....	.....	.....
19,758.52	21,157.37	212,729.97	689,312.09	392,991.04	971,311.99	442,631.69	109,448.01
.....
19,758.52	21,157.37	212,729.97	689,312.09	392,991.04	971,311.99	442,631.69	109,448.01
4,143.82	3,180.16	37,069.04	47,154.58	121,611.35	204,595.03	142,689.26	25,000.00
.....	86.00	4,000.00	.....	.....	22,416.63	85,736.35	1.00
.....	.....	2,622.88	.....	.....	22,070.13	.....	.....
30.50	150.00	17.50	6,329.97	63,169.14	12,251.61	18,008.35	.....
4,174.32	3,416.16	43,709.42	53,484.55	184,780.49	261,333.40	246,433.96	25,001.00
4,625.81	4,579.77	48,975.90	165,744.40	66,478.99	191,748.23	39,843.39	25,905.98
1,548.42	1,858.64	35,841.10	75,911.34	25,004.20	86,298.49	38,349.27	15,112.21
.....	.....	209.05	530.57	.....	.....	.....	.....
6,174.23	6,438.41	85,026.05	242,186.31	91,483.19	278,046.72	78,192.66	41,018.19
1,856.18	2,819.84	52,177.98	91,789.49	23,961.68	133,404.97	47,879.01	.....
.....	.....	13,675.35	.....	.....	.....	.....	11,431.37
7,553.79	8,482.96	18,141.17	301,851.74	92,765.68	298,526.90	70,126.06	31,997.45
9,409.97	11,302.80	83,994.50	393,641.23	116,727.36	431,931.87	118,005.07	43,428.82
19,758.52	21,157.37	212,729.97	689,312.09	392,991.04	971,311.99	442,631.69	109,448.01
27.6	20.6	20	10.2	56.6	33.5	61.2	18.8

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Simcoe	Springfield	Stamford Twp.	Stouffville	Stratford
Population.....	4,581	397	6,650	1,071	18,208
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	7,920.21		7,196.71		135,188.44
Substation equipment.....	19,722.30		37,384.60		129,938.28
Distribution system, overhead....	39,795.16	7,813.73	98,708.28	10,565.77	151,872.94
Distribution system, underground.					
Line transformers.....	20,618.71	2,169.19	38,908.85	3,215.97	88,289.67
Meters.....	16,784.92	1,822.08	25,164.31	3,300.18	82,277.32
Street light equipment, regular...	5,547.99	380.46	7,324.04	1,298.33	5,043.47
Street light equipment, ornamental	2,527.16				14,887.29
Miscellaneous construction expense	5,306.01	691.36	7,231.98	338.73	16,772.42
Steam or hydraulic plant.....					
Old plant.....	927.92		13,743.66	3,866.37	16,150.00
Total plant.....	119,150.38	12,876.82	235,662.43	22,585.35	640,419.83
Bank and cash balance.....	25.00	1,832.39	3,243.44	2,940.02	
Securities and investments.....		3,000.00		5,000.00	26,800.00
Accounts receivable.....	866.64	458.43	17,753.17	1,233.54	61,861.80
Inventories.....	460.24		4,864.25		8,724.72
Sinking fund on local debentures..					143,774.31
Equity in hydro systems.....	25,835.85	3,181.18	26,172.56	3,986.05	209,355.06
Other assets.....			206.15		
Total assets.....	146,338.11	21,348.82	287,902.00	35,744.96	1,090,935.72
Deficit.....					
Total.....	146,338.11	21,348.82	287,902.00	35,744.96	1,090,935.72
LIABILITIES					
Debenture balance.....	53,206.13	4,234.82	85,915.71	12,222.77	412,000.00
Accounts payable.....	11,307.75	344.23	70,244.43		171.16
Bank overdraft.....	3,927.17		1,430.95		23,522.73
Other liabilities.....	3,500.00	58.00	3,003.44		
Total liabilities.....	71,941.05	4,637.05	160,594.53	12,222.77	435,693.89
RESERVES					
For equity in H.E.P.C. systems...	25,835.85	3,181.18	26,172.56	3,986.05	209,355.06
For depreciation.....	10,911.22	1,182.43	17,968.50	2,028.65	148,179.23
Other reserves.....			588.72		817.02
Total reserves.....	36,747.07	4,363.61	44,729.78	6,014.70	358,351.31
SURPLUS					
Debentures paid.....	10,228.77	5,265.18	31,630.65	6,317.50	43,800.00
Local sinking fund.....					143,774.31
Additional operating surplus.....	27,421.22	7,082.98	50,947.04	11,189.99	109,316.21
Total surplus.....	37,649.99	12,348.16	82,577.69	17,507.49	296,890.52
Total liabilities, reserves and surplus	146,338.11	21,348.82	287,902.00	35,744.96	1,090,935.72
Percentage of net debt to total assets	59.7	25.5	61.4	38.5	39.6

"A"—Continued

Hydro Municipalities as at December 31, 1929

Strathroy 2,702	Sutton 825	Tavistock 965	Tecumseh 2,164	Thames- ford P.V.	Thames- ville 845	Thedford 569	Thorndale P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7,189.98		234.02			627.37		
11,918.37							
40,801.28	18,503.75	13,119.87	32,250.45	7,286.30	11,491.17	7,488.29	3,191.38
18,962.89	5,008.67	5,853.80	8,488.60	2,603.58	4,740.49	1,363.70	1,583.98
13,596.46	4,928.67	4,373.01	9,822.11	2,243.34	3,731.75	1,931.98	1,517.55
1,816.84	1,404.71	878.59		332.25	1,197.12	885.46	164.29
			4,760.95				
1,682.05	1,464.39	583.84	1,262.48	214.02	742.07	1,530.81	310.45
12,343.15	675.00				4,445.68	433.78	
108,311.02	31,985.19	25,043.13	56,584.59	12,679.49	26,975.65	13,634.02	6,767.65
844.93	415.44	961.50		1,495.66	135.06	892.87	1,153.26
		4,235.94		6,000.00	5,000.00	4,000.00	
1,724.99	1,189.60	315.50	2,043.69	923.06	995.46	584.98	264.28
5,118.23							
29,294.07	3,285.77	14,577.37	6,388.28	6,139.41	5,798.72	2,755.72	3,483.51
145,293.24	36,876.00	45,133.44	65,016.56	27,237.62	38,904.89	21,867.59	11,668.70
145,293.24	36,876.00	45,133.44	65,016.56	27,237.62	38,904.89	21,867.59	11,668.70
22,064.56	20,271.21	4,400.38	19,591.81	2,426.61	6,262.90	12,060.54	1,756.58
	450.79	65.00	5,479.52			143.94	
56.00			4,760.95				
22,120.56	20,722.00	4,465.38	29,832.28	2,426.61	6,262.90	12,204.48	1,756.58
29,294.07	3,285.77	14,577.37	6,388.28	6,139.41	5,798.72	2,755.72	3,483.51
22,107.48	2,432.41	4,766.71	5,653.89	3,414.37	3,443.80	1,737.33	1,792.99
51,401.55	5,718.18	19,344.08	12,042.17	9,553.78	9,242.52	4,493.05	5,276.50
24,167.44	5,728.79	1,599.62	6,408.19	2,931.42	4,924.90	4,439.46	1,329.90
47,603.69	4,707.03	19,724.36	16,733.92	12,325.81	18,474.57	730.60	3,305.72
71,771.13	10,435.82	21,323.98	23,142.11	15,257.23	23,399.47	5,170.06	4,635.62
145,293.24	36,876.00	45,133.44	65,016.56	27,237.62	38,904.89	21,867.59	11,668.70
19.1	61.6	14.6	50.9	11.5	18.9	63.9	21.5

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Thorold	Tilbury	Tillson- burg	Toronto	Toronto Twp.
Population.....	4,935	1,992	3,257	569,899	7,914
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		969.46	6,886.90	3,652,695.98	6,307.53
Substation equipment.....			13,937.52	12,656,852.07	
Distribution system, overhead....	29,417.35	11,106.75	34,559.35	5,364,582.79	156,021.23
Distribution system, underground.				3,607,412.09	
Line transformers.....	11,401.48	11,262.89	13,614.76	2,741,107.03	34,780.75
Meters.....	18,254.52	7,120.56	14,326.27	2,662,021.89	25,633.97
Street light equipment, regular..	2,618.66	1,001.16	3,166.83	442,006.08	3,674.84
Street light equipment, ornamental			510.67		
Miscellaneous construction expense	5,097.37	1,350.18	2,858.99	2,130,040.89	2,465.23
Steam or hydraulic plant.....	23,643.54				
Old plant.....		3,049.47		3,529,167.05	619.65
Total plant.....	90,432.92	35,860.47	89,861.29	36,785,885.87	229,503.20
Bank and cash balance.....	6,199.99	513.74	265.00	49,360.33	20.00
Securities and investments.....		10,000.00	22,000.00		
Accounts receivable.....	5,146.74	1,568.72	4,437.26	2,028,562.15	8,331.31
Inventories.....	56.33		3,194.00	728,349.96	
Sinking fund on local debentures..				4,895,748.19	
Equity in hydro systems.....	20,705.63	15,042.43	30,823.97	5,999,532.06	24,687.29
Other assets.....					
Total assets.....	122,541.61	62,985.36	150,581.52	50,487,438.56	262,541.80
Deficit.....					
Total.....	122,541.61	62,985.36	150,581.52	50,487,438.56	262,541.80
LIABILITIES					
Debenture balance.....	1,815.88	8,764.50	14,905.40	25,835,492.74	54,117.58
Accounts payable.....				1,506,629.03	1,488.62
Bank overdraft.....			2,272.34		10,221.81
Other liabilities.....	1,435.50		1,676.00		1,188.81
Total liabilities.....	3,251.38	8,764.50	18,853.74	27,342,121.77	67,016.82
RESERVES					
For equity in H.E.P.C. systems...	20,705.63	15,042.43	30,823.97	5,999,532.06	24,687.29
For depreciation.....	22,018.73	7,449.79	23,270.81	5,573,310.47	57,826.00
Other reserves.....				1,119,767.17	
Total reserves.....	42,724.36	22,492.22	54,094.78	12,692,609.70	82,513.29
SURPLUS					
Debentures paid.....	3,184.12	5,235.50	21,094.60	3,515,507.26	24,882.42
Local sinking fund.....				4,895,748.19	
Additional operating surplus.....	73,381.75	26,493.14	56,538.40	2,041,451.64	88,129.27
Total surplus.....	76,565.87	31,728.64	77,633.00	10,452,707.09	113,011.69
Total liabilities, reserves and surplus	122,541.61	62,985.36	150,581.52	50,487,438.56	262,541.80
Percentage of net debt to total assets	3.2	18.3	15.7	56.7	28.2

“A”—Continued

Hydro Municipalities as at December 31, 1929

Trafalgar Twp. Zone No. 1 3,834	Trafalgar Twp. Zone No. 2	Walkerville 1,028	Wallace- burg 4,234	Wardsville 224	Waterdown 871	Waterford 1,070	Waterloo 7,459
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	146,228.31	37,210.62	.....	200.00	.....	14,221.41
.....	.....	153,572.21	9,408.37	.....	.....	.....	63,189.29
19,667.01	7,522.15	144,077.17	52,495.54	4,700.83	13,145.23	14,704.46	72,810.20
.....
7,640.28	1,247.18	88,373.27	33,793.50	990.61	3,623.37	5,981.97	32,879.53
3,885.63	842.60	64,612.50	18,509.11	1,095.84	4,877.89	5,614.88	32,079.85
.....	.....	.....	2,937.48	519.36	583.81	2,496.22	7,500.46
.....	.....	178,374.37	.....	.....	.....	.....	5,836.73
1,565.33	278.16	35,679.19	9,922.73	488.73	376.46	442.53	5,342.03
.....
.....	.....	18,335.05	20,941.07	193.94	.....	.....	24,310.67
.....
32,758.25	9,890.09	829,252.07	185,218.42	7,989.31	22,806.76	29,240.06	258,170.17
.....
1,090.85	5,326.67	38,467.31	5,354.91	360.33	902.69	25.00	.....
.....	.....	.....	.....	1,000.00	3,500.00	8,000.00	.....
238.06	154.50	94,877.59	13,422.14	290.51	2,740.53	594.16	14,839.62
.....	.....	42,204.85	5,087.85	.....	.....	11.24	1,098.40
.....	.....	.....	.....	.....	.....	.....	5,760.00
.....	.....	212,834.82	64,327.16	992.25	8,699.12	10,297.65	90,056.22
.....	.....	1,803.33	.....	.....	.....	.....	.....
.....
34,087.16	15,371.26	1,219,439.97	273,410.48	10,632.40	38,649.10	48,168.11	369,924.41
.....
.....
34,087.16	15,371.26	1,219,439.97	273,410.48	10,632.40	38,649.10	48,168.11	369,924.41
.....
.....
16,049.08	.....	194,253.39	54,670.37	5,409.74	1,418.13	.....	69,519.44
.....	15,000.00	93,420.25	.....	.....	13.67	.....	7,240.09
.....	.....	.....	.....	.....	.....	786.94	1,792.81
.....	.....	195,576.87	999.47	.....	.....	.....	.....
.....
16,049.08	15,000.00	483,250.51	55,669.84	5,409.74	1,431.80	786.94	78,552.34
.....
.....
.....	.....	212,834.82	64,327.16	992.25	8,699.12	10,297.65	90,056.22
7,896.67	192.00	73,681.66	25,635.69	1,156.00	6,559.09	6,757.32	70,546.59
.....	.....	3,411.18	440.00	.....	.....	.....	.....
.....
7,896.67	192.00	289,927.66	90,402.85	2,148.25	15,258.21	17,054.97	160,602.81
.....
.....
3,377.33	.....	105,005.61	16,866.21	2,152.66	6,581.87	7,745.53	36,480.56
.....	.....	.....	.....	.....	.....	.....	5,760.00
6,764.08	179.26	341,256.19	110,471.58	921.75	15,377.22	22,580.67	88,528.70
.....
10,141.41	179.26	446,261.80	127,337.79	3,074.41	21,959.09	30,326.20	130,769.26
.....
34,087.16	15,371.26	1,219,439.97	273,410.48	10,632.40	38,649.10	48,168.11	369,924.41
.....
.....
47.1	97.6	48	26.6	56.1	4.8	2	26.6

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Watford	Welland	Wellesley	West Lorne	Weston
Population.....	1,030	10,085	P.V.	795	4,190
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		36,332.64			7,721.81
Substation equipment.....		50,846.29			31,822.27
Distribution system, overhead....	15,163.88	127,272.61	5,467.36	11,327.87	54,427.66
Distribution system, underground..		2,063.00			
Line transformers.....	4,881.94	50,839.01	2,153.50	4,738.99	33,630.71
Meters.....	4,783.39	52,360.69	2,241.70	3,053.33	19,250.60
Street light equipment, regular....	716.83	4,416.22	545.11	615.97	8,095.88
Street light equipment, ornamental..		27,252.86			20,729.13
Miscellaneous construction expense	1,666.94	10,842.27	102.05	347.14	8,800.53
Steam or hydraulic plant.....					
Old plant.....	657.44	51,344.53		1,250.00	
Total plant.....	27,870.42	413,570.12	10,509.72	21,333.30	184,478.59
Bank and cash balance.....	2,433.48	9,968.32	1,594.77	952.31	5,548.63
Securities and investments.....	2,000.00	5,181.23		1,000.00	
Accounts receivable.....	1,527.09	10,875.22	405.21		12,978.67
Inventories.....	50.00	3,868.12	37.40	22.03	321.90
Sinking fund on local debentures..		75,912.19			
Equity in hydro systems.....	6,745.14	98,132.07	6,651.87	11,726.59	78,289.84
Other assets.....		2,416.15			982.26
Total assets.....	40,626.13	619,923.42	19,198.97	35,034.23	282,599.89
Deficit.....					
Total.....	40,626.13	619,923.42	19,198.97	35,034.23	282,599.89
LIABILITIES					
Debenture balance.....	4,180.22	253,578.32	3,650.23	6,089.49	49,584.59
Accounts payable.....	836.79	21.45		2,478.24	5,000.00
Bank overdraft.....					
Other liabilities.....		33,257.86			982.26
Total liabilities.....	5,017.01	286,857.63	3,650.23	8,567.73	55,566.85
RESERVES					
For equity in H.E.P.C. systems....	6,745.14	98,132.07	6,651.87	11,726.59	78,289.84
For depreciation.....	3,236.14	89,849.03	1,379.80	4,253.12	22,607.53
Other reserves.....					
Total reserves.....	9,981.28	187,981.10	8,031.67	15,979.71	100,897.37
SURPLUS					
Debentures paid.....	5,532.99	21,421.68	3,849.77	1,910.51	20,447.85
Local sinking fund.....		75,912.19			
Additional operating surplus.....	20,094.85	47,750.82	3,667.30	8,576.28	105,687.82
Total surplus.....	25,627.84	145,084.69	7,517.07	10,486.79	126,135.67
Total liabilities, reserves and surplus	40,626.13	619,923.42	19,198.97	35,034.23	282,599.89
Percentage of net debt to total assets	14.8	47.3	29.1	36.8	27.1

“A”—Continued

Hydro Municipalities as at December 31, 1929

Wheatley 738	Windsor 66,893	Wood- bridge 717	Wood- stock 10,195	Wyoming 490	York Twp. 51,584	E. York Twp. 25,100	N. York Twp. 9,510
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	257,435.23	.....	35,383.01	.....	.....	16,735.24	26,996.06
.....	587,352.12	.....	87,175.52	.....	.....	8,085.33	17.15
12,458.46	774,773.63	12,786.55	93,793.00	6,873.74	641,176.30	238,343.44	238,519.70
.....	10,720.59	.....	.....	.....	.....	.....	.....
3,349.35	329,632.24	5,402.42	52,029.69	1,257.61	.....	48,437.80	44,370.61
2,902.04	324,531.73	3,825.47	50,553.32	2,077.38	.....	116,199.35	29,613.22
1,458.51	46,300.98	423.26	11,821.22	283.92	44,410.17	16,860.25	.....
.....	617,958.82	.....	.....	.....	.....	955.29	12,467.01
638.95	132,021.33	627.35	2,711.82	805.20	19,070.96	15,228.34	12,769.26
.....
2,569.50	142,140.11	.....	.....	.....	.....	.....	.....
.....
23,376.81	3,222,866.78	23,065.05	333,467.58	11,297.85	704,657.43	460,845.04	364,753.01
.....
3,404.73	13,349.96	468.29	25,343.51	179.85	64,365.03	7,155.26	7,781.92
.....	122,076.74	3,000.00	27,000.00	.....	.....	3,254.38	.....
334.48	212,502.88	1,390.78	15,466.41	162.61	66,687.48	28,268.13	10,660.45
.....	113,672.44	.....	1,893.27	.....	.....	6,810.19	41.93
.....	120,674.44	.....	39,416.47	.....	.....	.....	.....
3,019.42	631,682.98	9,975.03	127,284.27	2,739.58	.....	47,209.36	16,098.31
.....	4,620.92	.....	.....	.....	10,454.62	.....	5,198.49
.....
30,135.44	4,441,447.14	37,899.15	569,871.51	14,379.89	846,164.56	553,542.36	404,534.11
.....	.....	.....	.....	1,150.95	.....	.....	.....
.....
30,135.44	4,441,447.14	37,899.15	569,871.51	15,530.84	846,164.56	553,542.36	404,534.11
.....
.....
10,431.92	1,632,892.14	6,118.71	80,007.31	4,391.98	494,529.93	313,527.35	242,219.65
.....	71,581.19	1,969.94	.....	50.00	.....	15,352.07	49,790.11
.....
.....	665,409.18	26.50	4,253.94	.....	.....	9,808.13	17,912.48
.....
10,431.92	2,369,882.51	8,115.15	84,261.25	4,441.98	494,529.93	338,687.55	309,922.24
.....
.....
3,019.42	631,682.98	9,975.03	127,284.27	2,739.58	.....	47,209.36	16,098.31
1,772.00	281,823.52	5,972.42	92,120.90	3,041.26	86,934.13	30,080.96	27,059.87
.....	24,576.74	.....	9,562.00	.....	.....	.....	.....
.....
4,791.42	938,083.24	15,947.45	228,967.17	5,780.84	86,934.13	77,290.32	43,158.18
.....
.....
2,568.08	357,107.89	2,381.26	47,378.32	5,308.02	105,470.07	43,540.43	20,802.22
.....	120,674.44	.....	39,416.47	.....	.....	.....	.....
12,344.02	655,699.06	11,455.29	169,848.30	.....	159,230.43	94,024.06	30,651.47
.....
14,912.10	1,133,481.39	13,836.55	256,643.09	5,308.02	264,700.50	137,564.49	51,453.69
.....
30,135.44	4,441,447.14	37,899.15	569,871.51	15,530.84	846,164.56	553,542.36	404,534.11
.....
.....
38.5	60.9	29.1	11.1	38.2	58.4	66.9	79.8

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Concluded			GEORGIAN BAY SYSTEM		
Municipality.....	Zurich P.V.	NIAGARA SYSTEM SUMMARY	Alliston	Arthur	Barrie
Population.....			1,329	1,010	7,365
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		6,671,108.30			14,198.21
Substation equipment.....		16,917,227.39	675.73		5,615.98
Distribution system, overhead...	6,908.97	14,734,115.17	22,887.85	16,741.76	46,342.96
Distribution system, underground		4,464,018.82			63,652.35
Line transformers.....	1,927.69	6,331,675.02	5,895.51	4,163.78	28,908.90
Meters.....	2,176.31	6,176,281.10	6,157.63	3,129.04	35,663.64
Street light equipment, regular...	471.82	1,200,524.39	1,428.88	749.21	5,537.37
Street light equipment, ornamental		1,342,466.69			6,516.82
Miscellaneous construction expense	240.77	3,128,028.67	2,557.52	369.52	2,027.31
Steam or hydraulic plant.....		25,143.54			
Old plant.....	150.00	4,286,936.24	7,846.49	1,086.62	41,348.61
Total plant.....	11,875.56	65,277,525.33	47,449.61	26,239.93	249,812.15
Bank and cash balance.....	291.25	585,982.13	9,805.62	55.12	
Securities and investments.....	2,000.00	658,071.03			5,747.78
Accounts receivable.....	650.15	4,090,207.63	1,608.65	1,018.26	12,741.90
Inventories.....		1,217,439.39			1,308.63
Sinking fund on local debentures		6,541,607.00			
Equity in hydro systems.....	4,710.23	13,576,702.95	5,981.93	6,501.29	38,877.85
Other assets.....		135,692.38			
Total assets.....	19,527.19	92,083,227.84	64,845.81	33,814.60	308,488.31
Deficit.....		9,778.86		7,394.11	
Total.....	19,527.19	92,093,006.70	64,845.81	41,208.71	308,488.31
LIABILITIES					
Debenture balance.....	4,388.71	38,373,704.81	31,065.37	20,293.69	14,045.01
Accounts payable.....	50.00	2,779,218.19	3,487.97	1,027.54	5,257.50
Bank overdraft.....		258,027.35			4,979.57
Other liabilities.....		1,589,031.02			
Total liabilities.....	4,438.71	42,999,981.37	34,553.34	21,321.23	24,282.08
RESERVES					
For equity in H.E.P.C. systems..	4,710.23	13,576,702.95	5,981.93	6,501.29	38,877.85
For depreciation.....	2,814.43	10,043,716.94	10,919.73	8,679.88	44,927.50
Other reserves.....		1,252,659.45			700.00
Total reserves.....	7,524.66	24,873,079.34	16,901.66	15,181.17	84,505.35
SURPLUS					
Debentures paid.....	1,202.90	7,577,487.61	8,934.63	4,706.31	72,954.99
Local sinking fund.....		6,750,114.32			
Additional operating surplus.....	6,360.92	9,892,344.06	4,456.18		126,745.89
Total surplus.....	7,563.82	24,219,945.99	13,390.81	4,706.31	199,700.88
Total liabilities, reserves and surplus	19,527.19	92,093,006.70	64,845.81	41,208.71	308,488.31
Percentage of net debt to total assets	30	50.7	58.7	78.1	9

"A"—Continued

Hydro Municipalities as at December 31, 1929

Beaverton 1,018	Beeton 560	Bradford 915	Brechin P.V.	Canning- ton 889	Chats- worth 316	Chesley 1,801	Coldwater 610
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
299.50					221.00		275.00
22,186.04	428.50	388.50				595.98	
	11,464.03	17,758.83	1,679.67	9,104.14	4,412.84	19,269.27	7,464.22
6,780.39	2,177.42	2,605.82	1,031.71	2,872.60	1,014.91	5,763.72	2,628.26
5,829.75	1,652.54	3,267.73	576.02	3,870.30	1,139.13	6,689.88	2,689.37
1,183.99	1,149.64	544.95	168.69	641.70	500.43	1,097.93	399.16
2,445.56	1,389.69	1,828.94	546.92	587.33	385.90	3,496.32	145.03
3,772.42				3,609.37		5,503.60	
42,497.65	18,261.82	26,394.77	4,003.01	20,685.44	7,674.21	42,416.70	13,601.04
2,129.52		3,119.60	32.11	2,833.82	1,985.56	280.97	1,170.43
4,000.00		3,000.00		2,326.62		10,000.00	6,000.00
2,705.51	1,890.93	1,055.54	1,457.28	2,076.77	523.52	2,196.84	1,938.64
155.42	2.14	3.93		262.05		162.48	
7,786.49	4,901.70	5,522.74	3,291.21	5,905.35	2,286.53	10,466.03	3,653.48
		35.00			1,319.91		
59,274.59	25,056.59	39,131.58	8,783.61	34,090.05	13,789.73	65,523.02	26,363.59
	2,189.03						
59,274.59	27,245.62	39,131.58	8,783.61	34,090.05	13,789.73	65,523.02	26,363.59
8,839.22	11,792.51	21,248.73	2,517.40	10,212.67	4,898.28	12,168.11	4,618.64
2,489.26	2,436.40	576.62		67.43	230.40		
	498.19						
250.00		35.00					23.00
11,578.48	14,727.10	21,860.35	2,517.40	10,280.10	5,128.68	12,168.11	4,641.64
7,786.49	4,901.70	5,522.74	3,291.21	5,905.35	1,319.91	10,466.03	3,653.48
8,359.59	4,409.33	6,151.01	1,314.06	5,778.45	1,962.26	9,856.53	5,403.51
16,146.08	9,311.03	11,673.75	4,605.27	11,683.80	3,282.17	20,322.56	9,056.99
6,160.78	3,207.49	3,951.27	693.52	4,787.33	501.72	15,331.89	2,381.36
25,389.25		1,646.21	967.42	7,338.82	2,286.53	17,700.46	10,283.60
					2,590.63		
31,550.03	3,207.49	5,597.48	1,660.94	12,126.15	5,378.88	33,032.35	12,664.96
59,274.59	27,245.62	39,131.58	8,783.61	34,090.05	13,789.73	65,523.02	26,363.59
22.5	73.1	65	45.8	36	27.9	22.1	20.4

STATEMENT

Balance Sheets of Electrical Departments of

**GEORGIAN BAY
SYSTEM—Continued**

Municipality.....	Colling- wood	Cooks- town P.V.	Creemore	Dundalk	Durham
Population.....	5,652		605	560	1,720
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	14,598.66	60.00			56.59
Substation equipment.....	11,203.24	392.95			546.02
Distribution system, overhead....	46,665.46	9,073.10	6,065.98	7,290.49	18,917.28
Distribution system, underground.					
Line transformers.....	14,515.30	2,020.72	1,876.49	3,230.22	6,647.55
Meters.....	22,277.92	1,594.49	2,610.86	2,108.87	5,407.31
Street light equipment, regular...	2,813.56	514.21	295.27	1,033.64	1,210.77
Street light equipment, ornamental					
Miscellaneous construction expense	8,658.95	1,499.15	185.41	483.19	1,077.32
Steam or hydraulic plant.....					
Old plant.....	473.20		2,651.15	380.94	2,091.39
Total plant.....	121,206.29	15,154.62	13,685.16	14,527.35	35,954.23
Bank and cash balance.....		1,174.52			3,914.83
Securities and investments.....	40,000.00		5,000.00	5,000.00	18,000.00
Accounts receivable.....	12,936.62	784.59	1,285.84	1,415.11	2,454.96
Inventories.....	981.11		37.80	24.20	9.98
Sinking fund on local debentures..					
Equity in hydro systems.....	52,080.68	1,480.11	4,010.90	3,649.56	10,555.57
Other assets.....					
Total assets.....	227,204.70	18,593.84	24,019.70	24,616.22	70,889.57
Deficit.....		758.96			
Total.....	227,204.70	19,352.80	24,019.70	24,616.22	70,889.57
LIABILITIES					
Debenture balance.....	6,573.22	9,041.10	2,387.30	2,091.74	9,949.73
Accounts payable.....	5,570.66	234.91	101.59	449.18	146.45
Bank overdraft.....	9,878.09		689.20	1,149.36	
Other liabilities.....	1,605.95				
Total liabilities.....	23,627.92	9,276.01	3,178.09	3,690.28	10,096.18
RESERVES					
For equity in H.E.P.C. systems...	52,080.68	1,480.11	4,010.90	3,649.56	10,555.57
For depreciation.....	34,016.49	4,137.78	3,105.57	2,606.34	8,714.66
Other reserves.....					
Total reserves.....	86,097.17	5,617.89	7,116.47	6,255.90	19,270.23
SURPLUS					
Debentures paid.....	36,031.37	4,458.90	4,112.70	4,245.16	15,850.27
Local sinking fund.....					
Additional operating surplus.....	81,448.24		9,612.44	10,424.88	25,672.89
Total surplus.....	117,479.61	4,458.90	13,725.14	14,670.04	41,523.16
Total liabilities, reserves and surplus	227,204.70	19,352.80	24,019.70	24,616.22	70,889.57
Percentage of net debt to total assets	13.5	54.2	15.9	17.6	16.7

"A"—Continued

Hydro Municipalities as at December 31, 1929

Elmvale P.V.	Elmwood P.V.	Flesherton 442	Grand Valley 546	Graven- hurst 1,846	Hanover 2,785	Holstein P.V.	Huntsville 2,670
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
106.25			36.50	2,827.29	3,001.32		353.52
2,273.07				6,372.35	9,271.19		647.30
7,780.34	4,780.39	5,143.13	9,689.28	20,574.49	47,493.38	2,102.68	12,696.85
3,450.35	803.88	922.30	1,374.97	5,009.41	16,036.05	555.22	5,063.31
2,842.05	820.76	1,621.73	2,241.05	7,048.09	14,429.49	481.22	7,547.68
388.77	302.28	492.25	468.72	655.27	2,326.30	168.69	2,240.20
510.13	1,093.62	887.26	205.70	3,249.44			
				1,633.15	6,652.27	205.93	532.02
			919.85	26,976.29	2,370.91		5,436.20
17,350.96	7,800.93	9,066.67	14,936.07	74,345.78	101,580.91	3,513.74	34,517.08
1,271.12	1,687.11	2,582.83	2,261.83	7,413.23	7,928.20	181.04	3,652.79
2,000.00			4,221.19	9,800.00	27,735.65		8,000.00
420.34	366.76	829.07	1,834.43	5,917.28	5,769.03	345.91	4,757.10
	292.32			1,263.57		54.81	1,635.58
5,842.01	1,044.13	2,051.03	3,794.52	5,654.74			
				5,938.63	28,174.39	1,217.28	18,218.66
26,884.43	11,191.25	14,529.60	27,048.04	110,333.23	171,188.18	5,312.78	70,781.21
						4,632.43	
26,884.43	11,191.25	14,529.60	27,048.04	110,333.23	171,188.18	9,945.21	70,781.21
4,277.44	4,182.48	4,699.35	5,353.66	20,235.12	53,370.90	1,016.12	6,910.55
91.25		36.44	493.00	7,633.62	5,962.22	5,127.69	100.00
							150.00
4,368.69	4,182.48	4,735.79	5,846.66	27,868.74	59,333.12	6,143.81	7,160.55
5,842.01	1,044.13	2,051.03	3,794.52	5,938.63	28,174.39	1,217.28	18,218.66
4,964.89	1,958.09	2,580.30	4,664.71	13,195.69	26,325.48	838.19	8,828.48
10,806.90	3,002.22	4,631.33	8,459.23	19,134.32	54,499.87	2,055.47	27,047.14
2,722.56	3,017.52	2,000.65	5,646.34	43,733.32	34,129.10	1,745.93	14,222.99
8,986.28	292.32			5,654.74			
	696.71	3,161.83	7,095.81	13,942.11	23,226.09		22,350.53
11,708.84	4,006.55	5,162.48	12,742.15	63,330.17	57,355.19	1,745.93	36,573.52
26,884.43	11,191.25	14,529.60	27,048.04	110,333.23	171,188.18	9,945.21	70,781.21
20.7	39.4	37.9	25.1	22.4	41.5	150	13.6

STATEMENT

Balance Sheets of Electrical Departments of

GEORGIAN BAY
SYSTEM—Continued

Municipality.....	Kincardine	Kirkfield	Lucknow	Markdale	Meaford
Population.....	2,131	P.V.	1,062	797	2,747
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	6,389.46				1,104.93
Substation equipment.....	2,794.20			780.80	2,484.99
Distribution system, overhead.....	37,211.75	5,113.67	16,459.40	9,062.55	28,611.17
Distribution system, underground.....					
Line transformers.....	7,990.68	557.90	3,344.97	2,997.21	6,659.57
Meters.....	8,498.87	584.64	4,141.00	2,898.69	7,224.08
Street light equipment, regular.....	3,914.51	379.00	1,282.21	1,064.92	2,811.37
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	5,578.52	301.53	2,351.86	640.79	2,379.38
Steam or hydraulic plant.....					
Old plant.....				2,080.65	3,057.26
Total plant.....	72,377.99	6,936.74	27,579.44	19,525.61	54,332.75
Bank and cash balance.....	4,954.43	647.76	935.45	854.47	1,545.54
Securities and investments.....			2,000.00	3,500.00	15,887.31
Accounts receivable.....	5,247.11	493.15	2,322.97	687.46	3,066.76
Inventories.....	1,003.06			286.39	
Sinking fund on local debentures.....					
Equity in hydro systems.....	8,548.97	974.01	4,251.15	2,651.06	5,485.57
Other assets.....					495.62
Total assets.....	92,131.56	9,051.66	37,089.01	27,504.99	80,813.55
Deficits.....		609.58			
Total.....	92,131.56	9,661.24	37,089.01	27,504.99	80,813.55
LIABILITIES					
Debenture balance.....	42,762.79	4,125.78	14,350.81	6,608.18	39,114.46
Accounts payable.....	2,111.80	1,187.39	8.10		
Bank overdraft.....					
Other liabilities.....		188.65		20.00	461.91
Total liabilities.....	44,874.59	5,501.82	14,358.91	6,628.18	39,576.37
RESERVES					
For equity in H.E.P.C. systems.....	8,548.97	974.01	4,251.15	2,651.06	5,485.57
For depreciation.....	9,762.88	1,311.19	3,000.43	5,078.54	5,572.81
Other reserves.....					
Total reserves.....	18,311.85	2,285.20	7,251.58	7,729.60	11,058.38
SURPLUS					
Debentures paid.....	21,437.21	1,874.22	5,372.55	2,391.82	10,245.74
Local sinking fund.....					
Additional operating surplus.....	7,507.91		10,105.97	10,755.39	19,933.06
Total surplus.....	28,945.12	1,874.22	15,478.52	13,147.21	30,178.80
Total liabilities, reserves and surplus.....	92,131.56	9,661.24	37,089.01	27,504.99	80,813.55
Percentage of net debt to total assets.....	53.7	68.1	43.7	20.2	52.5

"A"—Continued

Hydro Municipalities as at December 31, 1929

Midland 7,820	Mount Forest 1,911	Neustadt 408	Orangeville 2,679	Owen Sound 12,368	Paisley 730	Penetang- uishene 3,985
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
19,786.05	3,725.00		2,585.07	25,978.31		2,151.00
85,096.20	686.75		1,169.00	11,999.17	1,933.26	7,076.39
91,304.22	20,940.99	9,939.60	30,178.09	99,330.81	11,055.80	40,004.63
20,748.83	5,728.01	4,281.59	5,181.34	40,466.67	1,576.74	14,204.72
34,653.39	6,264.44	2,017.85	9,679.44	52,611.72	2,761.96	12,693.61
6,476.32	2,281.55	496.41	1,306.59	14,197.94	1,037.03	2,860.64
11,904.53			166.81	12,311.47		
8,147.97	2,246.40	1,521.48	6,006.09	3,918.36	668.75	2,230.10
14,315.62	3,958.97	1,097.60	3,204.99	33,282.00		
					1,745.00	4,017.05
292,433.13	45,832.11	19,354.53	59,477.42	294,096.45	20,778.54	85,238.14
34,670.03	2,907.86		643.24	10,717.06	277.50	3,034.28
	8,000.00				2,500.00	1,625.42
11,288.28	3,381.22	12.65	5,067.90	22,268.01	911.93	4,884.45
5,170.94	114.85		159.10	8,552.68		746.87
				15,631.71		
76,875.64	9,413.04	3,472.70	10,877.79	52,484.69	2,427.10	23,840.65
			762.43	9,893.33		
420,438.02	69,649.08	22,839.88	76,987.88	413,643.93	26,895.07	119,369.81
		10,000.61				
420,438.02	69,649.08	32,840.49	76,987.88	413,643.93	26,895.07	119,369.81
50,822.96	15,382.35	10,399.66	16,664.72	20,000.00	12,839.31	22,644.52
13,805.64		7,272.64	3,036.61	18,041.92		
		301.31				
444.27				1,852.95	400.00	
65,072.87	15,382.35	17,973.61	19,701.33	39,894.87	13,239.31	22,644.52
76,875.64	9,413.04	3,472.70	10,877.79	52,484.69	2,427.10	23,840.65
76,319.15	10,789.03	4,793.84	13,048.68	39,014.71	1,930.15	23,601.45
			762.43	9,893.33		
153,194.79	20,202.07	8,266.54	24,688.90	101,392.73	4,357.25	47,442.10
61,247.03	15,576.25	6,600.34	19,235.28	121,000.00	3,160.69	18,355.48
140,923.33	18,488.41		13,362.37	15,631.71		
				135,724.62	6,137.82	30,927.71
202,170.36	34,064.66	6,600.34	32,597.65	272,356.33	9,298.51	49,283.19
420,438.02	69,649.08	32,840.49	76,987.88	413,643.93	26,895.07	119,369.81
18.9	25.5	92.8	29.8	7	54.1	23.7

STATEMENT

Balance Sheets of Electrical Departments of

**GEORGIAN BAY
SYSTEM—Continued**

Municipality.....	Port McNicol 879	Port Perry 1,150	Priceville P.V.	Ripley	Shelburne
Population.....				449	1,120
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	202.60		68.00		800.00
Substation equipment.....		2,564.65			566.60
Distribution system, overhead....	7,206.45	18,254.85	4,641.50	9,069.27	13,861.57
Distribution system, underground.....					
Line transformers.....	1,248.32	3,727.36	549.70	2,885.36	4,214.51
Meters.....	2,167.83	3,535.53	341.25	1,030.26	5,824.42
Street light equipment, regular....	225.81	1,030.40	139.88	844.33	1,037.70
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	672.85	815.17	833.90	1,164.99	2,277.07
Steam or hydraulic plant.....					
Old plant.....					739.50
Total plant.....	11,723.86	29,927.96	6,574.23	14,994.21	29,321.37
Bank and cash balance.....	1,484.67	2,194.39	47.41	2,594.08	3,152.66
Securities and investments.....		7,946.66			5,000.00
Accounts receivable.....	545.05	2,686.12	40.00	682.65	1,910.89
Inventories.....	28.28				
Sinking fund on local debentures.....					
Equity in hydro systems.....	1,810.27	3,567.90	399.12	2,023.11	5,951.65
Other assets.....					
Total assets.....	15,592.13	46,323.03	7,060.76	20,294.05	45,336.57
Deficit.....			4,412.99		
Total.....	15,592.13	46,323.03	11,473.75	20,294.05	45,336.57
LIABILITIES					
Debenture balance.....	3,846.67	17,706.89	4,374.91	11,791.65	9,221.09
Accounts payable.....		881.96	3,073.73	435.42	1,535.58
Bank overdraft.....					
Other liabilities.....		36.00		28.85	
Total liabilities.....	3,846.67	18,624.85	7,448.64	12,255.92	10,756.67
RESERVES					
For equity in H.E.P.C. systems....	1,810.27	3,567.90	399.12	2,023.11	5,951.65
For depreciation.....	3,095.29	3,648.07	1,000.90	2,068.18	7,046.28
Other reserves.....					
Total reserves.....	4,905.56	7,215.97	1,400.02	4,091.29	12,997.93
SURPLUS					
Debentures paid.....	3,453.33	2,174.77	2,625.09	2,180.29	10,698.91
Local sinking fund.....					
Additional operating surplus.....	3,386.57	18,307.44		1,766.55	10,883.06
Total surplus.....	6,839.90	20,482.21	2,625.09	3,946.84	21,581.97
Total liabilities, reserves and surplus.....	15,592.13	46,323.03	11,473.75	20,294.05	45,336.57
Percentage of net debt to total assets.....	27.9	43.5	111.8	67	27.3

"A"—Continued

Hydro Municipalities as at December 31, 1929

Stayner 967	Sunderland P.V.	Tara 453	Teeswater 813	Thornton* P.V.	Tottenham 535	Uxbridge 1,417
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
200.00			330.31		358.50	40.00
11,264.01	3,827.24	10,590.02	14,678.49	6,406.51	7,972.78	2,657.65
4,698.90	1,269.15	1,734.39	3,098.66	860.41	1,117.48	3,216.68
4,451.36	1,753.67	1,515.46	3,109.01	682.86	1,741.72	3,781.25
868.50	282.89	430.59	1,381.62	375.90	460.17	1,214.74
321.33	154.72	1,243.96	1,733.50	300.35	1,265.68	843.50
4,132.41	2,030.00		4,976.86		286.45	
25,936.51	9,317.67	15,514.42	29,308.45	8,626.03	13,202.78	24,254.98
	1,116.45	1,514.51	2,019.49	74.69	781.03	522.66
7,000.00			1,000.00			8,000.00
989.71	1,381.76	17.11	528.90	506.39	943.40	2,665.80
5,168.42	4,258.20	2,893.54	3,665.78	1,039.59	3,058.25	3,815.01
					21.11	
39,094.64	16,074.08	19,939.58	36,522.62	10,246.70	18,006.57	39,258.45
		5,185.91		5,139.01	3,288.90	
39,094.64	16,074.08	25,125.49	36,522.62	15,385.71	21,295.47	39,258.45
5,152.80	4,182.46	8,984.07	16,290.04	4,950.40	9,053.48	15,436.35
132.04	411.18	2,380.76	763.01	4,231.27	2,088.75	
569.88					21.00	
5,854.72	4,593.64	11,364.83	17,053.05	9,181.67	11,163.23	15,436.35
5,168.42	4,258.20	2,893.54	3,665.78	1,039.59	3,058.25	3,815.01
6,187.42	2,319.16	4,351.19	2,757.83	2,614.85	3,160.37	2,476.08
11,355.84	6,577.36	7,244.73	6,423.61	3,654.44	6,218.62	6,291.09
8,847.20	2,617.54	6,515.93	11,709.96	2,549.60	3,913.62	771.24
13,036.88	2,285.54		1,336.00			16,759.77
21,884.08	4,903.08	6,515.93	13,045.96	2,549.60	3,913.62	17,531.01
39,094.64	16,074.08	25,125.49	36,522.62	15,385.71	21,295.47	39,258.45
17.3	38.8	66.6	51.9	99.7	74.6	43.5

STATEMENT

Balance Sheets of Electrical Departments of

GEORGIAN BAY
SYSTEM—Concluded

Municipality.....	Victoria Harbor	Waubashene P.V.	Wingham	Woodville	GEORGIAN BAY SYSTEM SUMMARY
Population.....	1,382		2,266	407	
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....			8,423.66		107,287.92
Substation equipment.....			4,699.84		163,809.12
Distribution system, overhead.....	7,623.96	4,623.33	34,120.13	2,843.93	946,282.34
Distribution system, underground.....					63,652.35
Line transformers.....	1,120.25	1,054.81	13,864.85	1,760.09	285,507.94
Meters.....	2,169.16	1,361.47	11,821.83	1,829.31	332,842.63
Street light equipment, regular.....	337.47	221.79	3,292.12	127.31	76,691.59
Street light equipment, ornamental.....					34,149.07
Miscellaneous construction expense.....	667.12	257.66	4,809.68	251.91	93,008.76
Steam or hydraulic plant.....			13,592.99		46,874.99
Old plant.....			12,327.52	2,182.50	164,619.42
Total plant.....	11,917.96	7,519.06	106,952.62	8,995.05	2,314,726.13
Bank and cash balance.....	2,199.31	2,733.68	30.00	566.81	135,699.71
Securities and investments.....			6,000.00	6,500.00	225,790.63
Accounts receivable.....	568.30	578.14	10,991.31	640.70	153,639.00
Inventories.....			4,000.12		25,963.99
Sinking fund on local debentures.....					23,865.30
Equity in hydro systems.....	2,197.20	1,236.48	9,914.92	4,376.75	488,944.01
Other assets.....					11,207.49
Total assets.....	16,882.77	12,067.36	137,888.97	21,079.31	3,379,836.26
Deficit.....					43,611.53
Total.....	16,882.77	12,067.36	137,888.97	21,079.31	3,423,447.79
LIABILITIES					
Debenture balance.....	2,717.18	1,500.46	49,667.06	3,723.65	696,103.04
Accounts payable.....			5.00	792.71	103,715.64
Bank overdraft.....			2,154.71		20,220.31
Other liabilities.....			147.00		5,664.58
Total liabilities.....	2,717.18	1,500.46	51,973.77	4,516.36	825,703.57
RESERVES					
For equity in H.E.P.C. systems.....	2,197.20	1,236.48	9,914.92	4,376.75	488,944.01
For depreciation.....	3,423.04	1,721.10	14,640.19	1,538.92	479,970.25
Other reserves.....					11,355.76
Total reserves.....	5,620.24	2,957.58	24,555.11	5,915.67	980,270.02
SURPLUS					
Debentures paid.....	3,782.82	1,999.54	46,438.44	1,776.35	694,079.34
Local sinking fund.....					23,865.30
Additional operating surplus.....	4,762.53	5,609.78	14,921.65	8,870.93	899,529.56
Total surplus.....	8,545.35	7,609.32	61,360.09	10,647.28	1,617,474.20
Total liabilities, reserves and surplus.....	16,882.77	12,067.36	137,888.97	21,079.31	3,423,447.79
Percentage of net debt to total assets.....	18.5	13.8	40.6	27	27.9

"A"—Continued

Hydro Municipalities as at December 31, 1929

EASTERN ONTARIO
SYSTEM

Alexandria 2,284	Apple Hill P.V.	Athens 625*	Belleville 13,018**	Bloomfield 572	Brockville 9,322	Carleton Place 4,293
\$ c. 202.00	\$ c. 169.06	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
28,054.22	2,816.15	13,243.86	1,848.99 97,166.94	410.00 8,906.73	27,994.53 261.80 71,345.57	6,255.32 2,471.63 35,924.23
8,533.54	1,224.99	1,114.96	19,962.36	861.96	28,814.81	7,907.27
6,582.04	798.95	1,970.25	49,157.26	2,469.33	37,867.15	14,478.98
2,201.26	421.12	690.50	13,387.88	854.90	19,076.04	4,389.89
5,542.75	210.33	1,008.41	4,831.47	1,403.42	3,459.41	3,523.25
4,466.89	709.55				54,579.81 2,400.00	5,293.19
55,582.70	6,350.15	18,027.98	186,354.90	14,906.34	245,799.12	80,243.76
7,074.04	347.39	324.22		4,760.79	22,403.60	
2,622.55	66.78	714.09	27,830.51 9,945.15	277.59	135,000.00 18,457.00 2,462.86	11,000.00 13,127.16 920.76
10,174.70	944.92	491.09	9,050.24	634.25	103,935.24 52,189.00 79.07	20,955.41
75,453.99	7,709.24 311.76	19,557.38	233,180.80	20,578.97	580,325.89	126,247.09
75,453.99	8,021.00	19,557.38	233,180.80	20,578.97	580,325.89	126,247.09
29,487.01 371.65	4,465.10 222.46	13,598.49 4,469.13	176,000.00 6,885.33	8,685.40	145,806.06 11,108.49	52,492.38
140.98			4,035.39		13.00	833.87 520.00
29,999.64	4,687.56	18,067.62	186,920.72	8,685.40	156,927.55	53,846.25
10,174.70 6,838.36 325.25	944.92 853.62	491.09 340.00	9,050.24 3,630.00	634.25 2,826.57	52,189.00 43,831.78	20,955.41 6,300.06
17,338.31	1,798.54	831.09	12,680.24	3,460.82	96,020.78	27,255.47
18,646.83	1,534.90	401.51		2,514.60	80,851.48	13,507.62
9,469.21		257.16	33,579.84	5,918.15	103,935.24 142,590.84	31,637.75
28,116.04	1,534.90	658.67	33,579.84	8,432.75	327,377.56	45,145.37
75,453.99	8,021.00	19,557.38	233,180.80	20,578.97	580,325.89	126,247.09
46.	69.3	94.7	83.4	43.5	12.5	51.1

*Eleven months' operation.

**Nine months' operation.

STATEMENT

Balance Sheets of Electrical Departments of

EASTERN ONTARIO
SYSTEM—Continued

Municipality. :.....	Chester- ville 1,013	Finch 344	Havelock 1,134	Kempton- ville 1,269	Kingston 21,365
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and Buildings.....	250.00				184,945.77
Substation equipment.....			572.90		53,649.06
Distribution system, overhead....	7,525.97	7,168.93	19,562.27	18,353.92	132,777.49
Distribution system, underground					109,786.34
Line Transformers.....	2,993.20	1,263.85	2,054.41	4,408.73	51,794.75
Meters.....	3,548.23	1,415.03	5,255.65	5,580.15	88,691.53
Street light equipment, regular....	509.58	335.50	1,811.18	1,063.16	14,082.29
Street light equipment, ornamental					51,755.83
Miscellaneous construction expense	610.68	23.24	4,479.83	5,803.08	52,616.09
Steam or hydraulic plant.....					14,386.30
Old plant.....			2,420.45		65,791.89
Total plant.....	15,437.66	10,206.55	36,156.69	35,209.04	820,277.34
Bank and cash balance.....	10,989.45	51.95	1,739.95	1,985.87	6,199.53
Securities and Investments.....	4,000.00		2,500.00	18,000.00	55,000.00
Accounts receivable.....	1,070.90	733.08	1,847.87	4,420.50	24,604.01
Inventories.....	684.83			795.31	13,858.74
Sinking fund on local debentures					88,498.87
Equity in Hydro systems.....	11,502.44	608.92	1,456.46	4,881.14	
Other assets.....					1,250.00
Total assets.....	43,685.28	11,600.50	43,700.97	65,291.86	1,009,688.49
Deficit.....					
Total.....	43,685.28	11,600.50		65,291.86	1,009,688.49
LIABILITIES					
Debt balance.....	3,299.21	6,608.00	22,959.35	21,366.23	219,711.37
Accounts payable.....		1,408.06		2,851.86	
Bank overdraft.....					
Other liabilities.....					
Total liabilities.....	3,299.21	8,016.06	22,959.35	24,218.09	219,711.37
RESERVES					
For equity in H.E.P.C. systems..	11,502.44	608.92	1,456.46	4,881.14	
For depreciation.....	5,754.79	203.00	4,147.56	4,117.10	70,072.06
Other reserves.....					37,570.37
Total reserves.....	17,257.23	811.92	5,604.02	8,998.24	107,642.43
SURPLUS					
Debt balance paid.....	3,200.79	392.00	9,940.65	3,633.77	92,188.62
Local sinking fund.....					88,498.87
Additional operating surplus.....	19,928.05	2,380.52	5,196.95	28,441.76	501,647.20
Total surplus.....	23,128.84	2,772.52	15,137.60	32,075.53	682,334.69
Total liabilities, reserves and surplus	43,685.28	11,600.50	43,700.97	65,291.86	1,009,688.49
Percentage of net debt to total assets	10.3	72.9	54.3	40.	14.2

"A"—Continued

Hydro Municipalities as at December 31, 1929

Lakefield 1,469	Lanark 579	Lancaster 560	Lindsay 7,231	Marmora 853	Martintown P.V.	Maxville 774
\$ c. 86.89	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
20,678.98	5,766.81	6,094.04	10,215.52 3,176.56 64,364.62	12,550.81	126.15 2,623.20	407.79 11,189.62
4,125.73	708.96	962.35	16,851.67	2,070.43	690.33	1,339.45
6,779.15	1,458.12	1,411.58	29,008.90	3,226.72	684.10	2,207.53
1,831.52	682.38	650.65	9,882.20	1,088.59	335.26	1,582.34
3,344.64	321.60	1,068.55	1,320.15	2,000.91	653.27	2,427.80
3,445.25				573.62		
40,292.16	8,937.87	10,187.17	134,819.62	21,511.08	5,112.31	19,154.53
4,895.55	171.62	1,060.88	2,793.48	2,948.41	695.03	
11,503.40	1,982.05		40,000.00	1,000.00	1,000.00	
1,130.12	826.39		1,210.23	183.46	533.99	199.91
			657.61			
1,038.07	1,589.45	2,201.05	8,178.65	505.39	564.75	2,832.95
58,859.30	13,507.38	13,449.10	187,659.59	26,148.34	7,906.08	22,187.39
		9,132.78				137.03
58,859.30	13,507.38	22,581.88	187,659.59	26,148.34	7,906.08	22,324.42
28,948.80	5,139.90	5,909.34	126,068.46	10,962.55	4,125.72	10,834.85
1,027.58		8,916.41	296.82			372.58
						905.42
181.53			1,301.50	10.00	3.00	20.00
30,157.91	5,139.90	14,825.75	127,666.78	10,972.55	4,128.72	12,132.85
1,038.07	1,589.45	2,201.05	8,178.65	505.39	564.75	2,832.95
6,258.90	1,109.67	1,494.00	5,275.60	2,564.17	735.60	2,193.47
7,296.97	2,699.12	3,695.05	13,454.25	3,069.56	1,300.35	5,026.42
4,551.20	2,421.57	4,061.08	3,931.54	6,703.56	1,874.28	5,165.15
16,853.22	3,246.79		42,607.02	5,402.67	602.73	
21,404.42	5,668.36	4,061.08	46,538.56	12,106.23	2,477.01	5,165.15
58,859.30	13,507.38	22,581.88	187,659.59	26,148.34	7,906.08	22,324.42
52.2	43.1	131.8	71.1	42.7	56.2	62.7

STATEMENT

Balance Sheets of Electrical Departments of

EASTERN ONTARIO
SYSTEM—Continued

Municipality.....	Norwood	Omemees	Oshawa	Perth	Peterboro'
Population.....	752	511	20,609	3,712	21,768
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....			1,473.98	6,600.50	75,202.75
Substation equipment.....	457.53	360.32		3,492.82	86,021.62
Distribution system, overhead....	23,047.96	10,601.23	180,946.87	38,678.91	164,962.72
Distribution system, underground.					
Line transformers.....	3,664.69	2,647.47	38,969.34	17,540.39	85,117.29
Meters.....	4,636.23	2,369.06	97,347.53	18,860.18	83,301.99
Street light equipment, regular....	1,848.52	497.77	14,893.67	3,939.32	70,201.03
Street light equipment, ornamental					
Miscellaneous construction expense	3,886.61	1,540.92	6,667.94	5,969.89	58,843.16
Steam or hydraulic plant.....					
Old plant.....	2,447.51		12,007.67	23,638.69	17,410.71
Total plant.....	39,989.05	18,016.77	352,307.00	118,720.70	641,061.27
Bank and cash balance.....	1,808.99	242.22		8,719.67	
Securities and investments.....	4,000.00			10,000.00	43,000.00
Accounts receivable.....	805.18	89.32	29,746.68	14,903.13	42,649.17
Inventories.....			16,919.78	5,250.38	9,789.67
Sinking fund on local debentures..					136,312.97
Equity in Hydro systems.....	669.82		40,904.79	17,232.36	29,989.22
Other assets.....	278.74		1,743.39		
Total assets.....	47,551.78	18,348.31	441,621.64	174,826.24	902,802.30
Deficit.....					
Total.....	47,551.78	18,348.31	441,621.64	174,826.24	902,802.30
LIABILITIES					
Debenture balance.....	31,530.21	6,796.29	310,000.00	62,208.67	527,920.00
Accounts payable.....	176.42	247.50	20,622.72	15.08	25,731.81
Bank overdraft.....					21,798.38
Other liabilities.....	232.95		11,317.42	1,138.50	
Total liabilities.....	31,939.58	7,043.79	341,940.14	63,362.25	575,450.19
RESERVES					
For equity in H.E.P.C. systems..	669.82		40,904.79	17,232.36	29,989.22
For depreciation.....	5,509.14	4,195.16	6,912.00	24,224.32	66,221.06
Other reserves.....					7,380.20
Total reserves.....	6,178.96	4,195.16	47,816.79	41,456.68	103,590.48
SURPLUS					
Debentures paid.....	5,569.79	5,203.71		46,191.33	
Local sinking fund.....					136,312.97
Additional operating surplus.....	3,863.45	1,905.65	51,864.71	23,815.98	87,448.66
Total surplus.....	9,433.24	7,109.36	51,864.71	70,007.31	223,761.63
Total liabilities, reserves and surplus	47,551.78	18,348.31	441,621.64	174,826.24	902,802.30
Percentage of net debt to total assets	68.1	38.4	85.3	40.2	59.6

“A”—Continued

Hydro Municipalities as at December 31, 1929

Picton 3,266	Prescott 2,724	Russell P.V. 7,105	Smiths Falls 7,105	Warkworth P.V. 832	Wellington 832	Whitby 5,195
\$ c. 1,405.07 2,004.66 31,824.04	\$ c. 2,761.54 36,863.33	\$ c. 7,661.55	\$ c. 20,028.85 4,845.66 82,008.28	\$ c. 5,281.80	\$ c. 200.00 615.00 14,165.60	\$ c. 6,371.10 34,003.78 43,026.11
9,220.41 14,686.49 4,131.66	11,469.52 16,452.90 1,630.21	1,382.48 1,413.48 499.49	22,014.47 29,318.84 8,913.15	358.43 1,261.85 299.74	3,670.23 4,823.83 924.82	9,090.94 12,990.22 3,858.97
3,216.56 3,105.28	2,087.62 12,108.35	1,191.88	6,777.07 59,817.97	624.19 3,618.02	717.28 2,477.92	5,370.67 1,340.13
69,594.17 1,699.16 21,000.00 5,954.88 5,165.63	83,373.47 50.61 7,000.00 2,169.70 6,235.01	12,148.88 50.61 535.25	233,724.29 5,127.38 32,000.00 19,168.46 423.74	11,444.03 963.13 5,000.00 2,964.98	27,594.68 1,069.75 5,000.00 794.54	116,051.92 11,000.00 4,346.58 181.16
4,512.57 107,926.41	13,424.53 112,202.71	1,331.82 14,066.56	27,944.06 318,387.93	317.09 15,689.23	800.51 35,259.48	4,839.24 136,418.90
107,926.41	112,202.71	14,066.56	318,387.93	15,689.23	35,259.48	136,418.90
570.08 3,356.40 432.00	9,996.67 1,788.28	8,754.66 102.80	114,795.60	10,215.65	13,403.33 56.12	28,753.12 31,553.32 2,577.96 408.75
4,358.48	11,784.95	8,857.46	114,800.60	10,215.65	13,459.45	63,293.15
4,512.57 8,649.40 412.11	13,424.53 24,098.76	1,331.82 668.00	27,944.06 48,288.96	317.09 870.67	800.51 3,926.24	4,839.24 7,059.06
13,574.08	37,523.29	1,999.82	76,233.02	1,187.76	4,726.75	11,898.30
5,160.24 84,833.61	13,982.67 6,235.01 42,676.79	1,245.34 1,963.94	82,829.40 44,524.91	784.35 3,501.47	3,596.67 13,476.61	27,859.38 33,368.07
89,993.85	62,894.47	3,209.28	127,354.31	4,285.82	17,073.28	61,227.45
107,926.41	112,202.71	14,066.56	318,387.93	15,689.23	35,259.48	136,418.90
4.2	6.	69.5	39.5	66.5	39.	48.1

STATEMENT

Balance Sheets of Electrical Departments of

EASTERN ONTARIO SYSTEM—Concluded				OTTAWA SYSTEM
Municipality.....	Williams-burg P.V.	Winchester 992	EASTERN ONTARIO SYSTEM SUMMARY	Ottawa
Population.....				120,799
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		299.85	344,588.88	226,703.60
Substation equipment.....			194,600.12	532,944.35
Distribution system, overhead.....	1,658.07	8,660.57	1,215,501.40	629,646.87
Distribution system, underground.....			109,786.34	185,912.09
Line transformers.....	416.89	2,192.41	365,438.71	253,376.70
Meters.....	953.07	4,470.53	555,476.85	245,462.24
Street light equipment, regular.....	152.11	622.46	187,289.16	81,837.10
Street light equipment, ornamental.....			51,755.83	29,978.05
Miscellaneous construction expense.....	4.00	343.94	191,890.61	33,721.05
Steam or hydraulic plant.....			68,966.11	
Old plant.....		1,100.00	224,173.09	
Total plant.....	3,184.14	17,689.76	3,509,467.10	2,219,582.05
Bank and cash balance.....	211.30	2,315.94	90,649.91	2,895.72
Securities and investments.....	1,500.00	8,000.00	423,485.45	153,000.00
Accounts receivable.....	574.83	1,179.26	225,738.10	60,274.16
Inventories.....		1,032.96	68,088.58	26,153.47
Sinking fund on local debentures.....			334,982.09	484,463.46
Equity in Hydro systems.....	1,219.84	6,307.48	279,292.21	
Other assets.....			3,351.20	41.19
Total assets.....	6,690.11	36,525.40	4,935,054.64	2,946,410.05
Deficit.....			9,581.57	
Total.....	6,690.11	36,525.40	4,944,636.21	2,946,410.05
LIABILITIES				
Debenture balance.....	955.24	7,517.04	2,029,884.78	948,044.24
Accounts payable.....		888.26	120,680.80	50,463.40
Bank overdraft.....			27,903.91	105,905.12
Other liabilities.....			19,760.02	
Total liabilities.....	955.24	8,405.30	2,198,229.51	1,104,412.76
RESERVES				
For equity in H.E.P.C. systems.....	1,219.84	6,307.48	279,292.21	
For depreciation.....	1,341.10	5,352.51	375,862.69	717,602.21
Other reserves.....			45,687.93	83,942.34
Total reserves.....	2,560.94	11,659.99	700,842.83	801,544.55
SURPLUS				
Debentures paid.....	1,794.76	3,132.96	452,871.75	31,955.76
Local sinking fund.....			334,982.09	484,463.46
Additional operating surplus.....	1,379.17	13,327.15	1,257,710.03	524,033.52
Total surplus.....	3,173.93	16,460.11	2,045,563.87	1,040,452.74
Total liabilities, reserves and surplus.....	6,690.11	36,525.40	4,944,636.21	2,946,410.05
Percentage of net debt to total assets.....	17.5	27.8	43.1	25.1

"A"—Concluded

Hydro Municipalities as at December 31, 1929

		THUNDER BAY SYSTEM					ALL SYSTEMS GRAND SUMMARY	
Richmond 365	OTTAWA SYSTEM SUMMARY	Fort William 23,544	Nipigon P.V.	Port Arthur 18,305	THUNDER BAY SYSTEM SUMMARY			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.		
.....	226,703.60	48,927.62	150.00	70,685.14	119,762.76	7,469,451.46		
.....	532,944.35	115,281.03	.....	178,930.12	294,211.15	18,102,792.13		
5,900.98	635,547.85	87,068.45	11,281.14	478,220.47	576,570.06	18,108,016.82		
.....	185,912.09	.....	.....	.....	.....	4,823,369.60		
769.40	254,146.10	19,031.68	1,616.28	55,326.44	75,974.40	7,312,742.17		
892.51	246,354.75	13,589.08	1,669.06	79,265.44	94,523.58	7,405,478.91		
161.29	81,998.39	2,396.72	465.14	44,817.86	47,679.72	1,594,183.25		
.....	29,978.05	.....	.....	.....	.....	1,458,349.64		
612.67	34,333.72	3,222.55	77.03	32,926.44	36,226.02	3,483,487.78		
.....	.....	.....	.....	348,112.93	348,112.93	489,097.57		
.....	.....	417,650.00	.....	.....	417,650.00	5,093,378.75		
8,336.85	2,227,918.90	707,167.13	15,258.65	1,288,284.84	2,010,710.62	75,340,348.08		
239.68	3,135.40	10,185.13	1,139.70	31,941.70	43,266.53	858,733.68		
.....	153,000.00	.....	.....	540,741.70	540,741.70	2,001,088.81		
869.90	61,144.06	49,841.27	901.12	101,730.79	152,473.18	4,683,201.97		
.....	26,153.47	.....	.....	27,388.15	27,388.15	1,365,033.58		
.....	484,463.46	143,355.18	.....	225,340.85	368,696.03	7,753,613.88		
136.35	136.35	88,294.17	478.79	321,016.92	409,789.88	14,754,865.40		
.....	41.19	1,098.99	.....	869.61	1,968.60	152,260.86		
9,582.78	2,955,992.83	999,941.87	17,778.26	2,537,314.56	3,555,034.69	106,909,146.26		
.....	.....	.....	.....	.....	.....	62,971.96		
9,582.78	2,955,992.83	999,941.87	17,778.26	2,537,314.56	3,555,034.69	106,972,118.22		
6,323.30	954,367.54	446,500.00	8,467.57	421,100.00	876,067.57	42,930,127.74		
2,155.90	52,619.30	22,729.64	221.10	52,960.36	75,911.10	3,132.145.03		
.....	105,905.12	.....	.....	.....	.....	412,056.69		
.....	.....	6,922.55	.....	.....	6,922.55	1,621,378.17		
8,479.20	1,112,891.96	476,152.19	8,688.67	474,060.36	958,901.22	48,095,707.63		
136.35	136.35	88,294.17	478.79	321,016.92	409,789.88	14,754,865.40		
152.00	717,754.21	35,890.44	1,297.00	256,662.96	293,850.40	11,911,154.49		
.....	83,942.34	1,796.91	.....	41,928.87	43,725.78	1,437,371.26		
288.35	801,832.90	125,981.52	1,775.79	619,608.75	747,366.06	28,103,391.15		
176.70	32,132.46	221,150.00	1,532.43	215,000.00	437,682.43	9,194,253.59		
.....	484,463.46	143,355.18	.....	225,340.85	368,696.03	7,962,121.20		
638.53	524,672.05	33,302.98	5,781.37	1,003,304.60	1,042,388.95	13,616,644.65		
815.23	1,041,267.97	397,808.16	7,313.80	1,443,645.45	1,848,767.41	30,773,019.44		
9,582.78	2,955,992.83	999,941.87	17,778.26	2,537,314.56	3,555,034.69	106,972,118.22		
89.7	25.4	43.3	50.2	12.4	21.3	47.8		

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM

Municipality.....	Acton	Agincourt P.V.	Ailsa Craig 521	Alvinston	Amherst- burg 3,017
Population.....	1,973			635	
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	9,719.56	3,922.00	2,877.95	4,402.53	18,394.04
Commercial light service.....	3,157.19	820.26	1,525.03	2,515.88	7,748.55
Commercial power service.....	12,483.59	1,537.81	1,162.30	1,264.30	5,722.04
Municipal power.....	671.01			340.00	
Street lighting.....	1,736.25	675.96	560.00	1,855.92	1,731.33
Merchandise.....					
Miscellaneous.....	88.64	52.63	196.35	86.52	86.50
Total earnings.....	27,856.24	7,008.66	6,321.63	10,465.15	33,682.46
EXPENSES					
Power purchased.....	17,654.60	4,697.93	4,772.17	6,787.99	18,222.00
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	1,662.28	174.94	176.99	183.13	3,388.65
Line transformer maintenance.....	4.50			4.00	170.88
Meter maintenance.....	83.16		247.14	49.13	146.50
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	142.54	42.74	143.55	151.87	663.25
Promotion of business.....					
Billing and collecting.....			167.85	293.93	1,890.37
General office, salaries and expenses.....	1,136.92	329.77	75.56	239.89	701.85
Undistributed expenses.....	320.23		61.80	71.56	377.92
Truck operation and maintenance....	361.57				408.96
Interest.....	147.65	389.04	138.93	944.52	1,488.20
Sinking fund and principal payments on debentures.....	534.41	440.32	219.34	846.25	1,053.38
Total expenses.....	22,047.86	6,074.74	6,003.33	9,572.27	28,511.96
Gross surplus.....	5,808.38	933.92	318.30	892.88	5,170.50
Gross loss.....					
Depreciation.....	1,169.00	308.00	165.00	531.00	1,528.00
Net surplus.....	4,639.38	625.92	153.30	361.88	3,642.50
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	475	136	131	156	625
Commercial light service.....	80	17	44	58	145
Power service.....	19	3	1	4	18
Total.....	574	156	176	218	788

"B"

Hydro Municipalities for Year Ended December 31, 1929

Ancaster Twp. 4,073*	Arkona 385	Aylmer 2,050	Ayr 789	Baden P.V.	Barton Twp. 7,795	Beachville P.V.	Belle River 791
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
14,824.37	2,247.20	10,266.56	3,987.35	3,103.48	1,790.13	2,450.31	4,060.97
2,503.89	1,288.50	8,041.72	1,623.38	901.18	151.62	856.25	1,508.22
601.75	1,010.97	5,375.37	872.98	6,405.43	868.34	7,782.16	608.59
		688.50					721.63
1,076.00	960.00	2,064.55	988.10	520.00	252.00	528.00	825.00
		9.89				14.90	
112.10	3.48	1,256.07		76.55		495.05	107.19
19,118.11	5,510.15	27,702.66	7,471.81	11,006.64	3,062.09	12,126.67	7,831.60
9,882.31	3,765.50	14,173.66	4,862.06	8,738.91	1,707.56	8,771.00	4,175.59
2,343.70	121.52	2,465.19	326.63	114.38	130.16	198.88	628.30
		88.08					
		62.08		20.23	.14	58.48	
97.37	84.05	121.17	134.38	91.81	8.07	21.89	76.62
	136.87	1,518.88	280.37	374.50	119.62	305.58	508.51
1,886.95	218.31	593.82	56.84	90.98	57.58	47.75	78.65
		282.28	57.62	22.84	23.78	27.04	94.26
1,373.99	788.40	1,474.57	226.67	157.84	409.01	181.21	436.15
363.30	454.63	1,033.35	143.95	172.49	534.99	183.68	309.21
15,947.62	5,569.28	21,813.08	6,088.52	9,783.98	2,990.91	9,795.51	6,307.29
3,170.49		5,889.58	1,383.29	1,222.66	71.18	2,331.16	1,524.31
	59.13						
1,061.00	262.00	1,188.00	468.00	305.00	268.00	507.00	502.00
2,109.49		4,701.58	915.29	917.66		1,824.16	1,022.31
	321.13				196.82		
573	90	587	187	121	73	121	174
52	39	127	49	30	5	30	33
5	3	14	6	3	2	4	4
630	132	728	242	154	80	155	211

*Thirteen months' operation.

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Blenheim	Blyth	Bolton	Bothwell	Brampton
Population.....	1,595	641	599	630	5,100
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	7,836.02	3,043.78	3,011.55	2,792.64	32,482.59
Commercial light service.....	5,526.61	1,556.69	894.67	1,457.63	14,120.22
Commercial power service.....	4,189.90	1,241.74	2,548.77	854.77	13,565.08
Municipal power.....	625.54			171.16	1,829.47
Street lighting.....	2,427.50	1,293.50	788.74	1,306.52	5,183.00
Merchandise.....					79.09
Miscellaneous.....	84.66	12.57	357.10	360.20	1,991.68
Total earnings.....	20,690.23	7,148.28	7,600.83	6,942.92	69,251.13
EXPENSES					
Power purchased.....	11,663.51	4,381.58	3,890.38	3,836.02	49,314.67
Substation operation.....					
Substation maintenance.....					14.20
Distribution system, operation and maintenance.....	2,107.37	378.43	8.17	68.52	2,094.39
Line transformer maintenance.....	87.36				203.10
Meter maintenance.....	133.76		30.10		289.74
Consumers' premises expenses.....					
Street lighting, operation and maintenance.....	467.96	61.92	67.03	114.14	493.70
Promotion of business.....					
Billing and collecting.....	973.61			235.51	1,653.18
General office, salaries and expenses.....	809.51	179.67	591.47	162.17	2,559.77
Undistributed expenses.....	465.46			54.19	661.62
Truck operation and maintenance.....					
Interest.....	664.69	731.47	616.22	249.71	2,452.68
Sinking fund and principal payments on debentures.....	377.69	799.59	438.12	134.90	3,516.24
Total expenses.....	17,750.92	6,532.66	5,641.49	4,855.16	63,253.29
Gross surplus.....	2,939.31	615.62	1,959.34	2,087.76	5,997.84
Gross loss.....					
Depreciation.....	1,055.00	352.00	238.00	460.00	3,527.00
Net surplus.....	1,884.31	263.62	1,721.34	1,627.76	2,470.84
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	489	140	146	154	1,307
Commercial light service.....	114	53	40	50	227
Power service.....	12	5	9	6	54
Total.....	615	198	195	210	1,588

‘B’—Continued

Hydro Municipalities for Year Ended December 31, 1929

Brantford 28,903	Brantford Twp. 7,075	Bridge- port P.V.	Brigden P.V.	Brussels 736	Burford P.V.	Burgess- ville P.V.	Caledonia 1,450
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
162,503.25	18,466.36	3,537.63	2,298.61	4,363.13	3,817.53	1,209.99	3,795.47
38,871.71	3,680.30	1,058.20	1,695.15	2,315.22	1,018.04	645.97	4,379.83
121,156.92	3,735.39	1,601.56	2,166.98	487.05	2,027.79	1,241.87	3,500.71
28,099.63							
34,047.65	4,457.92	450.00	1,121.46	1,272.00	871.08	299.00	1,562.01
					2.00		
	856.51	8.08	119.16	8.20	133.00		
384,679.16	31,196.48	6,655.47	7,401.36	8,445.60	7,869.44	3,396.83	13,238.02
258,265.28	14,053.01	4,686.41	5,159.86	5,748.75	4,890.83	2,079.01	6,932.00
5,094.00							
882.08							
5,383.64	2,431.24	207.90	229.92	510.83	458.88	85.10	463.84
897.81	329.04	19.00					59.60
545.43	72.69	49.96					33.80
391.49							
4,483.03	487.36	53.45	111.06	224.06	63.81	55.77	132.00
1,581.52							
6,825.43	621.69		282.50		451.41	59.77	720.00
7,892.67	2,713.42	314.99	286.14	410.14	94.16	17.30	177.83
4,940.98	268.24	37.50			80.96	2.00	83.88
2,600.15	584.71						
21,241.23	2,057.92	595.72	143.54	970.13	101.82	87.28	168.64
20,471.00	2,779.89		218.10	787.15	299.39	202.94	190.47
341,495.74	26,399.21	5,964.93	6,431.12	8,651.06	6,441.26	2,589.17	8,962.06
43,183.42	4,797.27	690.54	970.24		1,428.18	807.66	4,275.96
				205.46			
18,790.00	2,076.00	408.00	298.00	478.00	394.00	155.00	580.00
24,393.42	2,721.27	282.54	672.24		1,034.18	652.66	3,695.96
				683.46			
6,081	739	98	105	181	177	50	243
690	46	16	41	58	35	23	90
105	4	3	6	1	4	2	10
6,876	789	117	152	240	216	75	343

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Campbell- ville P.V.	Cayuga 619	Chatham 15,509	Chippawa 1,207	Clifford 493
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	1,136.99	2,060.63	74,180.36	6,323.20	1,780.21
Commercial light service.....	456.35	1,993.33	67,207.89	1,462.89	1,261.29
Commercial power service.....		969.37	77,042.33	235.59	96.90
Municipal power.....			4,689.96	1,239.30	
Street lighting.....	456.00	1,501.50	15,206.84	1,008.00	810.00
Merchandise.....			1,379.83		
Miscellaneous.....	78.89		3,124.43		73.35
Total earnings.....	2,128.23	6,524.83	242,831.64	10,268.98	4,021.75
EXPENSES					
Power purchased.....	1,347.80	3,697.09	129,623.31	5,143.00	2,582.26
Substation operation.....			7,794.24		
Substation maintenance.....			2,268.07		
Distribution system, operation and maintenance.....	6.10	147.73	6,067.33	1,142.82	10.54
Line transformer maintenance.....			2,520.74	21.00	
Meter maintenance.....			3,630.87	10.95	5.56
Consumers' premises expenses.....			316.94		
Street lighting, operation and main- tenance.....	28.79	11.95	3,956.75	320.64	10.50
Promotion of business.....					
Billing and collecting.....		520.14	6,992.92		
General office, salaries and expenses.....	137.74	106.69	14,463.53	900.17	395.93
Undistributed expenses.....		83.04	4,580.62	123.75	70.10
Truck operation and maintenance.....			1,478.45		
Interest.....	285.87	969.38	12,787.35	630.48	413.63
Sinking fund and principal payments on debentures.....	203.72	710.57	8,769.79	580.95	136.82
Total expenses.....	2,010.02	6,246.59	205,250.91	8,873.76	3,625.34
Gross surplus.....	118.21	278.24	37,580.73	1,395.22	396.41
Gross loss.....					
Depreciation.....	92.00	474.00	10,665.00	695.00	206.00
Net surplus.....	26.21		26,915.73	700.22	190.41
Net loss.....		195.76			
NUMBER OF CONSUMERS					
Domestic service.....	38	80	3,789	250	90
Commercial light service.....	8	46	698	42	36
Power service.....		3	137	5	1
Total.....	46	129	4,624	297	127

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1929

Clinton 1,936	Comber P.V.	Cottam P.V.	Courtright 417	Dashwood P.V.	Delaware P.V.	Dorchester P.V.	Drayton 574
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
11,165.86	2,459.37	2,266.99	1,894.64	1,522.87	1,240.79	2,599.39	2,695.13
5,190.14	2,068.03	1,290.76	1,150.26	1,008.11	730.40	1,049.28	1,941.69
5,115.97	3,483.47	467.08	.....	1,347.66	.....	590.50	1,487.04
946.25	.....	.....	208.44	.....	.....	.....	.....
1,950.92	707.00	379.00	860.00	536.49	228.00	507.36	840.00
117.13	.....	.....	.....	.....	.....	.....	.....
839.24	136.97	.....	19.20	7.39	57.25	130.96	386.11
25,325.51	8,854.84	4,403.83	4,132.54	4,422.52	2,256.44	4,877.49	7,349.97
14,800.35	5,679.96	2,028.51	2,624.70	2,992.82	982.33	2,567.04	4,694.75
100.00	.....	.....	.....	.....	.....	.....	.....
531.40	355.18	74.51	17.23	22.52	43.21	68.15	58.27
19.20	.....	35.71	.....	.....	.....	.....	40.18
185.62	58.34	93.84	64.90	24.69	21.99	58.67	66.34
.....	300.00	.....	.....	.....	.....	160.13	.....
2,317.30	154.23	431.81	247.67	185.34	136.03	13.22	337.46
284.26	80.80	.....	.....	.....	.....	50.00	72.52
161.12	.....	.....	.....	.....	.....	.....	.....
2,266.93	222.94	459.69	383.87	148.32	141.77	158.75	474.82
1,305.66	384.28	287.30	470.07	89.20	119.22	122.01	228.01
21,971.84	7,235.73	3,411.37	3,808.44	3,462.89	1,444.55	3,197.97	5,972.35
3,353.67	1,619.11	992.46	324.10	959.63	811.89	1,679.52	1,377.62
1,608.00	362.00	277.00	188.00	166.00	135.00	344.00	421.00
1,745.67	1,257.11	715.46	136.10	793.63	676.89	1,335.52	956.62
502	98	100	71	61	48	129	150
116	45	27	22	25	19	31	51
15	2	2	1	1	.....	2	5
633	145	129	94	87	67	162	206

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Dresden	Drumbo P.V.	Dublin P.V.	Dundas	Dunnville
Population.....	1,424			5,009	3,386
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	5,169.50	1,883.66	996.88	19,419.62	10,525.26
Commercial light service.....	4,383.34	669.59	792.72	11,380.05	11,416.23
Commercial power service.....	5,757.92	904.58	1,183.76	23,277.84	11,141.59
Municipal power.....	461.23			433.53	2,185.77
Street lighting.....	1,842.30	494.00	705.00	3,968.00	4,249.08
Merchandise.....	63.67			736.47	52.04
Miscellaneous.....	847.77		3.99	451.02	569.90
Total earnings.....	18,525.73	3,951.83	3,682.35	59,666.53	40,139.77
EXPENSES					
Power purchased.....	13,255.74	2,444.84	2,675.05	36,232.63	19,304.56
Substation operation.....					
Substation maintenance.....				188.58	
Distribution system, operation and maintenance.....	1,040.92	446.56	24.59	5,106.97	2,056.36
Line transformer maintenance.....				210.31	
Meter maintenance.....			16.00	1,079.47	
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	53.52	16.46	95.20	719.07	176.82
Promotion of business.....					
Billing and collecting.....	678.89	226.06		1,156.44	
General office, salaries and expenses.....	496.02	39.52	171.72	2,052.71	2,858.25
Undistributed expenses.....	162.30	74.00		1,433.30	379.10
Truck operation and maintenance.....				901.71	
Interest.....	848.66	142.56	188.77	1,808.69	3,995.62
Sinking fund and principal payments on debentures.....	1,082.98	134.10	355.32	1,693.88	1,983.66
Total expenses.....	17,619.03	3,524.10	3,526.65	52,583.76	30,754.37
Gross surplus.....	906.70	427.73	155.70	7,082.77	9,385.40
Gross loss.....					
Depreciation.....	758.00	229.00	217.00	3,211.00	2,598.00
Net surplus.....	148.70	198.73		3,871.77	6,787.40
Net loss.....			61.30		
NUMBER OF CONSUMERS					
Domestic service.....	348	77	45	1,132	566
Commercial light service.....	123	23	18	176	184
Power service.....	14	2	4	44	29
Total.....	485	102	67	1,352	779

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1929

Dutton 802	East Windsor 13,531	Elmira 2,692	Elora 1,216	Embro 431	Erieau 201	Erie Beach 21*	Essex 1,821
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,229.98	87,326.56	16,571.96	6,696.47	2,557.32	2,779.71	1,189.01	8,133.46
2,615.80	26,184.98	7,885.82	3,864.94	1,515.56	1,003.35	202.94	5,971.76
2,926.93	73,723.00	15,356.32	9,145.98	1,295.98	278.02		4,880.13
		957.29					1,261.86
945.00	7,592.84	1,806.00	1,616.00	702.00	420.00		1,654.52
10.62							
300.73		418.39	96.59				
10,029.06	194,827.38	42,995.78	21,419.98	6,070.86	4,481.08	1,391.95	21,901.73
7,155.90	102,940.26	31,430.79	13,257.07	3,665.83	2,423.27	754.35	9,585.74
60.42	4,513.10	2,075.41	1,887.96	200.26	66.96	172.65	435.04
93.93	472.37	67.58					243.31
34.78	4,312.58	153.21	60.47	26.85			60.35
	979.62						
115.11	2,316.58	172.56	217.55	117.14	69.76		78.20
516.00		1,076.95		259.48	300.51		198.16
517.56	12,003.19	574.73	1,288.69	52.14	38.33	161.80	3,101.86
85.76		499.58	287.54	62.63	2.99		149.61
		304.69	160.30				288.26
385.29	6,991.31	1,147.82	371.49	362.32	362.36	187.17	683.99
269.80	5,373.36	854.63	599.16	344.45	257.40	100.78	384.80
9,234.55	139,902.37	38,357.95	18,130.23	5,091.10	3,521.58	1,376.75	15,209.32
794.51	54,925.01	4,637.83	3,289.75	979.76	959.50	15.20	6,692.41
182.00	7,015.00	1,651.00	881.00	390.00	228.00	64.00	1,209.00
612.51	47,910.01	2,986.83	2,408.75	589.76	731.50		5,483.41
						48.80	
202	2,859	513	290	95	121	54	408
71	315	125	76	40	11	2	115
8	42	20	3	3	1		17
281	3,216	658	369	138	133	56	540

*Summer population not included.

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Etobicoke Twp. 13,633	Exeter	Fergus	Fonthill	Forest
Population.....	13,633	1,583	2,080	727	1,415
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	85,915.07	10,080.06	12,730.43	4,342.13	9,641.81
Commercial light service.....	21,526.44	4,651.43	6,025.63	841.07	4,477.11
Commercial power service.....	13,440.43	5,786.35	8,451.48	666.22	4,096.71
Municipal power.....	1,651.09	519.65	619.49		898.22
Street lighting.....	13,975.11	1,901.97	2,571.00	904.78	2,321.00
Merchandise.....		276.04			209.88
Miscellaneous.....		387.16	16.36		723.48
Total earnings.....	136,508.14	23,602.66	30,414.39	6,754.20	22,368.21
EXPENSES					
Power purchased.....	62,000.30	14,091.20	17,149.22	3,168.54	11,241.83
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	9,079.22	446.45	1,955.40	565.16	1,232.65
Line transformer maintenance.....	1,321.30	19.25			
Meter maintenance.....	1,233.56	59.33	107.39	14.40	9.20
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	2,001.68	361.74	223.88	24.48	489.62
Promotion of business.....	9.62				
Billing and collecting.....	5,692.46	552.90			550.45
General office, salaries and expenses.....	4,679.75	2,908.03	1,317.50	474.30	1,901.20
Undistributed expenses.....	2,976.33	337.64	90.60		165.72
Truck operation and maintenance.....	2,412.50	431.72	497.82		306.89
Interest.....	12,526.87	649.21	1,850.93	1,177.26	928.11
Sinking fund and principal payments on debentures.....	9,182.68	790.18	2,269.88	638.42	853.08
Total expenses.....	113,116.27	20,647.65	25,462.62	6,062.56	17,678.75
Gross surplus.....	23,391.87	2,955.01	4,951.77	691.64	4,689.46
Gross loss.....					
Depreciation.....	9,852.00	1,136.00	1,132.00	399.00	1,220.00
Net surplus.....	13,539.87	1,819.01	3,819.77	292.64	3,469.46
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	3,582	430	572	204	439
Commercial light service.....	327	119	114	25	131
Power service.....	22	10	15	3	23
Total.....	3,931	559	701	232	593

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1929

Galt 12,977	George- town 1,973	Glencoe 793	Goderich 4,264	Granton P.V.	Guelph 19,202	Hagers- ville 1,290	Hamilton 127,447
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
102,148.22	11,536.17	5,240.13	24,865.42	1,547.39	97,870.92	4,119.17	741,403.52
44,443.01	5,513.76	3,524.91	11,357.19	1,026.95	48,541.07	3,948.38	165,914.66
86,749.23	19,280.88	1,884.96	17,650.89	1,111.89	102,523.76	29,403.09	917,911.72
3,877.47	874.44	749.37	3,060.00	.....	21,778.23	.....	75,521.56
20,913.01	2,110.00	1,994.00	3,746.50	360.00	20,057.76	1,200.00	94,292.91
1,076.66	55.79	.....	227.31	.....	2,783.11	189.14	.....
3,748.01	752.34	30.24	318.84	94.54	2,341.54	384.34	15,338.00
262,955.61	40,123.38	13,423.61	61,226.15	4,140.77	295,896.39	39,244.12	2,010,382.37
168,462.99	28,137.24	7,832.78	39,680.23	2,700.00	200,220.05	28,969.05	1,353,379.07
4,545.18	.....	.....	.....	.....	.....	.....	29,564.33
473.12	.....	.....	3,275.70	.....	2,305.91	.....	4,884.28
2,498.56	1,935.29	452.68	1,963.58	97.01	3,679.31	1,723.29	33,313.16
316.42	93.06	.....	111.20	.....	902.32	242.67	4,426.99
853.09	178.32	.....	188.01	.....	3,415.56	52.50	12,447.72
.....	.....	.....	.....	.....	.....	.....	7,923.57
2,937.42	330.60	390.06	535.27	56.30	5,707.01	117.43	12,557.14
466.60	.....	.....	.....	.....	21.00	.....	10,893.08
2,623.05	.....	571.98	1,044.85	79.36	6,158.80	1,142.59	34,778.27
4,397.49	3,356.44	503.38	2,185.03	94.49	8,635.54	650.23	48,462.03
3,578.60	360.78	183.81	627.18	61.00	1,913.81	244.82	20,590.27
1,065.90	444.37	.....	114.37	.....	2,171.39	341.70	5,015.98
22,940.49	846.70	729.43	2,551.71	183.80	4,530.95	255.05	122,851.86
16,370.18	606.28	792.25	2,372.50	94.41	3,817.94	307.50	112,648.58
231,529.09	36,289.08	11,456.37	54,649.63	3,366.37	243,479.59	34,046.83	1,813,736.33
31,426.52	3,834.30	1,967.24	6,576.52	774.40	52,416.80	5,197.29	196,646.04
.....
17,283.61	1,626.00	728.00	3,940.00	186.00	11,752.00	854.00	60,308.25
14,142.91	2,208.30	1,239.24	2,636.52	588.40	40,664.80	4,343.29	136,337.79
.....
3,402	611	215	1,121	78	4,881	288	31,135
512	125	74	209	31	702	106	3,295
117	25	6	18	1	131	14	829
4,031	761	295	1,348	110	5,714	408	35,259

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Harriston	Harrow P.V.	Hensall	Hespeler	Highgate
Population.....	1,145		748	2,748	359
EARNINGS					
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	5,890.16	6,916.42	4,024.20	16,199.24	1,603.17
Commercial light service.....	3,554.23	3,965.06	1,520.56	5,932.32	910.55
Commercial power service.....	6,146.30	3,086.78	3,008.82	15,211.64	1,987.02
Municipal power.....	567.03			670.59	
Street lighting.....	1,193.40	708.00	912.00	2,533.00	550.03
Merchandise.....					
Miscellaneous.....	24.09	2.49	111.95	264.48	117.66
Total earnings.....	17,375.21	14,678.75	9,577.53	40,811.27	5,168.43
EXPENSES					
Power purchased.....	10,654.91	8,488.68	5,667.16	29,229.94	3,751.83
Substation operation.....				476.28	
Substation maintenance.....					
Distribution system, operation and maintenance.....	1,207.73	684.33	260.46	1,934.46	29.05
Line transformer maintenance.....	84.51	28.36		22.40	
Meter maintenance.....	84.83	146.83		327.88	
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	72.86	138.77	182.34	458.65	50.29
Promotion of business.....					
Billing and collecting.....			383.01	315.60	360.00
General office, salaries and expenses.....	825.13	521.02	546.17	1,719.53	71.60
Undistributed expenses.....	147.99		130.00	572.61	5.81
Truck operation and maintenance...	159.33			527.16	
Interest.....	771.91	593.88	523.35	1,251.91	191.27
Sinking fund and principal payments on debentures.....	1,312.97	411.82	354.34	1,801.67	135.16
Total expenses.....	15,322.17	11,013.69	8,046.83	38,638.09	4,595.01
Gross surplus.....	2,053.04	3,665.06	1,530.70	2,173.18	573.42
Gross loss.....					
Depreciation.....	754.00	532.00	528.00	1,976.00	302.00
Net surplus.....	1,299.04	3,133.06	1,002.70	197.18	271.42
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	307	211	171	674	91
Commercial light service.....	92	70	58	104	35
Power service.....	12	4	13	20	6
Total.....	411	285	242	798	132

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1929

Humberstone 1,766	Ingersoll 5,150	Jarvis 460	Kingsville 2,427	Kitchener 26,709	Lambeth P.V.	La Salle 623	Leamington 5,072
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
8,978.01	32,408.62	1,539.00	13,057.45	172,394.02	3,213.60	8,441.06	21,008.03
3,119.88	15,769.04	1,227.14	6,244.72	100,912.33	1,132.23	3,749.86	13,818.52
5,406.59	26,307.67	4,079.10	2,579.59	227,913.46	.....	3,208.34	9,861.79
.....	1,701.33	.....	1,069.51	27,968.22	306.57	.....	4,869.14
1,274.00	4,607.50	672.00	3,619.50	29,951.26	407.50	1,110.66	7,155.06
.....	199.24	.....	.....	.....	.....	.....	.....
.....	1,493.82	40.15	540.00	5,015.40	8.19	.....	399.61
18,778.48	82,487.22	7,557.39	27,110.77	564,154.69	5,068.09	16,509.92	57,112.15
7,819.82	55,599.21	5,357.20	14,346.87	389,086.50	3,702.13	8,577.23	30,722.64
.....	329.69	.....	.....	8,469.95	.....	.....	.....
.....	.....	.....	.....	3,270.04	.....	.....	.....
1,331.91	3,050.81	58.25	3,424.03	17,024.65	38.42	1,269.45	4,583.77
108.00	7.66	.....	.....	338.60	.....	.....	74.71
28.30	263.57	.....	146.74	4,746.21	.....	43.79	86.60
.....	.....	.....	.....	872.14	.....	.....	.....
145.64	540.82	63.81	784.76	9,169.13	64.41	58.57	555.16
.....	.....	.....	.....	535.87	.....	.....	.....
.....	1,033.36	360.30	931.51	10,299.55	.....	.....	831.85
858.17	3,197.59	142.22	649.99	10,017.45	221.31	870.95	3,265.09
.....	1,588.87	65.80	376.03	3,839.09	.....	169.25	849.74
130.87	598.40	.....	352.35	3,923.62	.....	250.22	789.73
1,568.34	3,394.24	482.85	1,162.32	14,772.38	246.88	825.17	2,237.42
1,700.00	1,677.35	393.57	534.96	19,911.77	96.04	501.85	1,647.35
13,691.05	71,281.57	6,924.00	22,709.56	496,276.95	4,369.19	12,566.48	45,644.06
5,087.43	11,205.65	633.39	4,401.21	67,877.74	698.90	3,943.44	11,468.09
838.00	3,656.00	319.00	1,475.00	23,886.00	262.00	611.00	2,494.00
4,249.43	7,549.65	314.39	2,926.21	43,991.74	436.90	3,332.44	8,974.09
449	1,309	81	691	6,434	101	195	1,213
67	250	36	156	893	19	27	222
10	45	4	14	239	1	3	26
526	1,604	121	861	7,566	121	225	1,461

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Listowel	London	London Twp.	Lucan	Lynden P.V.
Population.....	2,346	66,132	7,448	573	
EARNINGS					
Domestic service.....	15,857.04	425,923.68	7,508.40	4,561.55	1,592.65
Commercial light service.....	7,917.03	197,150.76	1,275.03	1,818.47	876.17
Commercial power service.....	10,282.68	393,003.96	1,327.14	2,196.81	936.56
Municipal power.....	1,771.86	28,743.91			
Street lighting.....	3,511.11	43,751.14	640.50	1,032.20	390.56
Merchandise.....		13,637.43			
Miscellaneous.....	400.61	33,560.19	120.79	500.32	124.46
Total earnings.....	39,740.33	1,135,771.07	10,871.86	10,109.35	3,920.40
EXPENSES					
Power purchased.....	24,589.87	661,789.17	6,429.79	5,683.20	2,827.06
Substation operation.....		15,528.97			
Substation maintenance.....	86.39	10,271.91			
Distribution system, operation and maintenance.....	2,307.28	8,009.00	411.50	1,188.15	137.60
Line transformer maintenance.....	125.21	2,679.38			
Meter maintenance.....	269.84	17,889.37			
Consumers' premises expenses.....		2,644.92			
Street lighting, operation and main- tenance.....	447.85	5,876.12	110.73	109.62	27.00
Promotion of business.....		3,492.35			
Billing and collecting.....		20,246.90	328.08	299.87	170.78
General office, salaries and expenses.....	1,287.49	46,322.02	348.25	304.05	7.42
Undistributed expenses.....	336.73	17,000.38	50.00	104.28	81.78
Truck operation and maintenance.....	152.30	9,375.29			
Interest.....	977.97	59,335.85	865.22	473.48	184.71
Sinking fund and principal payments on debentures.....	2,650.25	53,313.33	770.94	515.57	131.32
Total expenses.....	33,231.18	933,774.96	9,314.51	8,678.22	3,567.67
Gross surplus.....	6,509.15	201,996.11	1,557.35	1,431.13	352.73
Gross loss.....					
Depreciation.....	1,986.00	75,839.40	520.00	522.00	80.00
Net surplus.....	4,523.15	126,156.71	1,037.35	909.13	272.73
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	687	16,548	285	168	75
Commercial light service.....	155	2,513	13	43	20
Power service.....	25	529	3	9	1
Total.....	867	19,590	301	220	96

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1929

Markham 956	Merlin P.V.	Merritton 2,556	Milton 1,875	Milverton 1,025	Mimico 5,876	Mitchell 1,574	Moorefield P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,124.65	1,908.83	11,932.44	10,323.42	4,742.88	49,904.63	8,884.55	741.56
2,758.31	1,372.03	1,816.93	5,180.34	2,525.71	8,438.04	4,714.13	601.59
2,617.53	4,728.90	39,952.64	31,209.49	9,614.05	6,694.82	5,382.37	1,314.92
169.77				318.19	3,866.18	769.37	
1,340.00	688.00	2,736.00	1,924.50	990.50	8,303.12	1,980.00	375.00
			229.30			2,529.67	
229.50	278.48		1,717.77	416.40	48.49	220.71	4.95
12,239.76	8,976.24	56,438.01	50,584.82	18,607.73	77,255.28	24,480.80	3,038.02
6,311.64	6,145.44	42,293.29	31,706.31	16,753.70	41,903.91	12,890.97	2,401.14
			240.68				
					27.85	237.69	
1,342.19	162.99	3,043.50	3,609.71	364.05	6,993.49	586.00	21.54
		7.55			31.05	70.33	
		143.95	199.46	85.75	580.06	164.79	1.20
45.68	100.80	338.12	106.98	166.10	1,425.36	227.95	24.88
	190.00				1,257.55		
995.29	40.95	1,923.08	1,786.21	1,009.73	1,390.76	2,135.86	181.10
	65.21	321.28	645.53	204.96	1,063.94	500.40	
		209.64	590.47		297.73	145.15	
338.69	653.64	768.57	2,406.84	488.54	4,893.45	116.10	152.00
642.32	532.11	706.20	1,320.32	546.58	3,896.79	570.39	232.41
9,675.81	7,891.14	49,755.18	42,612.51	19,619.41	63,761.94	17,645.63	3,014.27
2,563.95	1,085.10	6,682.83	7,972.31		13,493.34	6,835.17	23.75
				1,011.68			
526.00	305.00	1,541.00	1,536.00	583.00	4,417.00	2,456.00	157.00
2,037.95	780.10	5,141.83	6,436.31		9,076.34	4,379.17	
				1,594.68			133.25
243	100	605	454	220	1,565	440	50
67	40	55	101	68	131	114	26
10	4	5	21	8	14	22	2
320	144	665	576	296	1,710	576	78

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Mount Brydges P.V.	Newbury 288	New Hamburg 1,446	New Toronto 5,327	Niagara Falls 19,013
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,478.49	1,010.36	9,503.36	27,856.02	147,578.72
Commercial light service.....	925.03	708.30	4,018.36	8,997.28	64,172.95
Commercial power service.....	1,015.97	619.37	6,173.08	113,860.58	60,660.67
Municipal power.....				10,162.22	14,439.09
Street lighting.....	484.00	690.00	2,223.00	9,631.82	31,184.71
Merchandise.....			235.41		
Miscellaneous.....	26.77	44.39	277.16	1,652.63	115.00
Total earnings.....	4,930.26	3,072.42	22,430.37	172,160.55	318,151.14
EXPENSES					
Power purchased.....	2,819.38	1,728.94	14,119.49	132,239.26	178,350.27
Substation operation.....			379.47		9,044.31
Substation maintenance.....					
Distribution system, operation and maintenance.....	59.43	22.34	512.99	6,974.49	7,748.10
Line transformer maintenance.....				235.62	545.73
Meter maintenance.....	98.49		172.99	1,109.47	4,255.44
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	21.24	22.44	398.00	1,366.46	4,323.39
Promotion of business.....					
Billing and collecting.....	157.37		749.17	2,563.34	6,073.34
General office, salaries and expenses.....	122.75	229.94	1,004.30	3,550.84	9,524.32
Undistributed expenses.....	71.87		545.53	3,380.89	6,358.32
Truck operation and maintenance.....			328.26		2,908.60
Interest.....	167.56	407.80	668.38	279.33	22,077.78
Sinking fund and principal payments on debentures.....	123.28	400.00	652.01	250.33	23,288.41
Total expenses.....	3,641.37	2,811.46	19,530.59	151,950.03	274,498.01
Gross surplus.....	1,288.89	260.96	2,899.78	20,210.52	43,653.13
Gross loss.....					
Depreciation.....	239.00	231.00	1,135.00	3,860.00	20,084.00
Net surplus.....	1,049.89	29.96	1,764.78	16,350.52	23,569.13
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	128	59	353	1,276	4,398
Commercial light service.....	35	28	87	136	728
Power service.....	3	1	11	27	94
Total.....	166	88	451	1,439	5,220

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1929

Niagara-on-the-Lake 1,605	Norwich 1,279	Oil Springs 417	Otterville P.V.	Palmerston 1,650	Paris 4,063	Parkhill 959	Petrolia 2,516
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
12,379.41	7,073.95	1,331.87	2,040.15	10,031.47	24,219.15	4,536.89	11,140.38
3,014.77	2,860.87	1,082.01	1,682.60	5,337.20	7,465.29	2,931.53	6,807.34
853.11	1,781.90	9,517.24	626.43	6,037.09	11,979.16	1,026.44	24,911.83
1,798.29	788.46		80.55	944.51	1,225.00	557.07	
2,590.34	2,015.00	738.00	372.00	1,214.52	5,612.00	1,423.00	2,533.92
639.88				7.82	531.33		85.58
	1,183.36			27.55	1,650.44	18.42	645.71
21,275.80	15,703.54	12,669.12	4,801.73	23,600.16	52,682.37	10,493.35	46,124.76
11,407.45	9,131.41	8,545.22	2,634.71	16,293.41	33,797.55	7,591.86	27,670.65
					272.67		
2,382.92	1,554.37	1,216.56	129.45	1,251.84	4,118.86	343.62	1,901.26
56.85	205.51			22.64	54.12		232.85
				107.70	620.84		55.00
550.00	185.00	59.54	40.51	202.98	504.78	154.92	164.35
	824.00	107.10	96.64		949.80	271.66	868.10
1,701.01	384.60	372.99	29.82	819.59	679.36	155.80	3,450.58
	944.86	593.97	9.67	162.42	854.77	74.06	626.52
121.27	295.69	462.72		55.76	137.11		294.73
794.60	429.73	625.21	83.29	517.94	1,946.82	642.36	1,962.39
218.28	465.09	893.63	260.91	680.77	1,490.50	781.83	1,789.67
17,232.38	14,420.26	12,876.94	3,285.00	20,115.05	45,427.18	10,016.11	39,016.10
4,043.42	1,283.28		1,516.73	3,485.11	7,255.19	477.24	7,108.66
		207.82					
1,115.00	648.00	614.00	299.00	1,042.00	4,228.00	584.00	2,342.00
2,928.42	635.28		1,217.73	2,443.11	3,027.19		4,766.66
		821.82				106.76	
427	340	69	107	390	1,354	215	673
73	85	35	42	109	175	76	187
10	8	36	3	9	23	5	65
510	433	140	152	508	1,552	296	925

STATEMENT

Detailed Operating Reports of Electrical Departments of

HYDRO
SYSTEM—Continued

Municipality.....	Plattsville P.V.	Point Edward 1,371	Port Colborne 5,203	Port Credit 1,381	Port Dalhousie 1,580
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,007.90	5,522.02	29,627.95	10,828.26	11,929.22
Commercial light service.....	989.60	1,790.13	11,909.14	4,573.41	2,360.92
Commercial power service.....	108.00	10,805.26	11,400.92	691.63	3,977.48
Municipal power.....			2,807.33	895.84	
Street lighting.....	544.00	822.00	5,521.98	2,788.00	1,572.67
Merchandise.....			93.79		
Miscellaneous.....		392.96		19.40	
Total earnings.....	3,649.50	19,332.37	61,361.11	19,796.54	19,840.29
EXPENSES					
Power purchased.....	2,791.63	12,703.57	33,368.34	11,986.92	10,506.02
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	58.75	431.77	2,236.34	1,527.19	2,038.93
Line transformer maintenance.....		24.25	245.52		12.60
Meter maintenance.....		37.91	1,408.25		38.10
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	21.50	73.10	1,017.83	261.84	89.71
Promotion of business.....					
Billing and collecting.....	149.00	550.00	1,579.59	715.67	
General office, salaries and expenses.....	11.22	761.15	2,840.92	383.01	1,914.02
Undistributed expenses.....	11.37	303.50	649.11		
Truck operation and maintenance.....			1,269.51		289.40
Interest.....	180.30	815.55	5,073.24	541.45	669.02
Sinking fund and principal payments on debentures.....	156.05	749.08	4,782.99	427.90	1,073.62
Total expenses.....	3,379.82	16,449.88	54,471.64	15,843.98	16,631.42
Gross surplus.....	269.68	2,882.49	6,889.47	3,952.56	3,208.87
Gross loss.....					
Depreciation.....	79.00	815.00	3,201.00	1,122.00	781.00
Net surplus.....	190.68	2,067.49	3,688.47	2,830.56	2,427.87
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	87	295	1,190	380	564
Commercial light service.....	25	43	193	95	48
Power service.....	1	13	21	4	9
Total.....	113	351	1,404	479	621

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1929

Port Dover 1,572	Port Rowan 669	Port Stanley 618	Preston 5,697	Princeton P.V.	Queenston P.V.	Richmond Hill 1,170	Ridgetown 1,986
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,262.51	2,215.22	10,373.76	45,998.77	2,556.46	2,536.28	5,698.62	9,639.22
4,839.88	1,678.88	2,937.12	21,303.50	368.12	206.64	2,960.39	4,921.64
4,332.29	38.41	3,934.29	45,152.25	1,992.24	850.85	2,178.12	6,100.21
		350.01	888.80			399.70	1,006.52
2,799.26	1,118.35	1,908.16	4,880.28	336.00	543.96	1,379.00	2,770.00
780.21						178.92	193.63
11.89		259.39	453.59		32.27	73.41	525.17
19,026.04	5,050.86	19,762.73	118,677.19	5,252.82	4,170.00	12,868.16	25,156.39
9,987.21	4,392.31	11,185.31	85,645.73	2,978.29	2,299.27	7,070.16	13,635.81
			4,249.63				
			21.14				
1,319.29	101.41	2,510.38	6,205.85	7.52	65.89	1,544.48	771.51
			477.37				61.82
		26.04	323.37			78.20	203.39
92.05	25.68	97.49	767.91	2.04	23.59	108.64	424.31
532.13	312.70	657.14	1,833.36	121.40			690.25
309.93	33.95	477.19	816.11	11.75	384.03	750.92	1,819.58
198.89	66.55	307.54	1,083.26			59.30	403.17
185.06		146.48	1,012.96				85.19
1,107.75	1,036.72	558.27	2,966.49	123.82	424.24	384.93	479.52
1,670.46	316.97	675.73	4,417.72	105.79	327.02	549.83	283.30
15,402.77	6,286.29	16,641.57	109,820.90	3,350.61	3,524.04	10,546.46	18,857.85
3,623.27		3,121.16	8,856.29	1,902.21	645.96	2,321.70	6,298.54
	1,235.43						
1,029.00	270.00	958.00	6,559.00	182.00	263.00	471.00	1,172.00
2,594.27		2,163.16	2,297.29	1,720.21	382.96	1,850.70	5,126.54
	1,505.43						
364	74	565	1,506	89	66	337	533
133	32	74	232	13	6	57	130
13	1	13	50	1	1	12	22
510	107	652	1,788	103	73	406	685

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality.....	Riverside	Rockwood P.V.	Rodney	St. Cath- arines 23,327	St. Clair Beach 136
Population.....	4,383		712		
EARNINGS					
Domestic service.....	46,589.62	2,562.05	2,932.60	133,617.92	1,915.49
Commercial light service.....	5,631.92	967.52	2,282.00	33,941.62	2,187.07
Commercial power service.....	10,400.39		1,362.13	81,436.63	698.87
Municipal power.....					
Street lighting.....	4,458.34	760.84	942.00	23,540.35	
Merchandise.....				386.36	
Miscellaneous.....		12.22	356.20	4,277.49	
Total earnings.....	67,080.27	4,302.63	7,874.93	277,200.37	4,801.43
EXPENSES					
Power purchased.....	35,370.27	2,803.22	5,477.50	178,049.87	2,968.78
Substation operation.....				4,230.20	
Substation maintenance.....					
Distribution system, operation and maintenance.....	2,831.45	108.01	322.20	15,040.82	275.06
Line transformer maintenance.....	452.96			1,097.20	95.75
Meter maintenance.....	1,774.60	16.85	29.34	1,097.06	86.79
Consumers' premises expenses.....	475.42				36.06
Street lighting, operation and main- tenance.....	1,253.45	79.62	141.63	2,865.96	
Promotion of business.....				1,307.90	
Billing and collecting.....			495.00	6,673.21	
General office, salaries and expenses.....	4,696.52	498.42	44.85	13,310.29	167.00
Undistributed expenses.....			79.66	4,445.52	
Truck operation and maintenance.....				4,346.23	
Interest.....	4,095.94		367.27	9,536.36	235.97
Sinking fund and principal payments on debentures.....	2,980.72		223.09	8,158.35	254.60
Total expenses.....	53,931.33	3,506.12	7,180.54	250,158.97	4,120.01
Gross surplus.....	13,148.94	796.51	694.39	27,041.40	681.42
Gross loss.....					
Depreciation.....	3,270.00	363.00	396.00	13,762.00	244.00
Net surplus.....	9,878.94	433.51	298.39	13,279.40	437.42
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	1,111	138	192	5,742	43
Commercial light service.....	55	30	71	581	6
Power service.....	9		5	133	2
Total.....	1,175	168	268	6,456	51

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1929

St. George P.V.	St. Jacobs P.V.	St. Marys 4,023	St. Thomas 16,743	Sandwich 10,258	Sarnia 16,544	Scarboro' Twp. 15,325	Seaforth 1,670
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,546.38	2,874.02	25,049.83	94,270.32	102,614.64	95,489.61	69,416.10	8,968.11
780.10	1,188.01	8,765.53	43,961.70	19,369.50	44,027.54	14,815.49	5,427.10
2,228.28	3,406.33	17,373.42	53,975.64	21,480.71	158,417.74	15,598.02	7,632.35
.....	.....	1,534.27	6,374.17	.....	.....	8,495.62	514.86
296.00	430.00	3,448.00	13,827.21	9,195.76	13,959.76	15,732.29	1,520.00
.....	.....	551.39	.....	441.77	3,414.03	.....	167.59
124.33	175.50	393.17	3,032.81	.....	3,553.38	690.84	1,086.20
5,975.09	8,073.86	57,115.61	215,441.85	153,102.38	318,862.06	124,748.36	25,316.21
4,804.82	5,872.55	41,609.33	133,198.61	96,909.81	192,633.13	62,780.57	16,763.85
.....	.....	1,381.54	6,917.56	.....	4,693.90	31.40	.....
.....	.....	3.30	403.75	93.96	120.63	.....	.....
19.50	31.99	726.23	7,504.26	4,096.56	4,366.04	7,568.26	2,234.00
.....	.....	114.09	1,098.16	430.95	432.72	395.75	33.37
33.93	.....	1,028.69	850.15	393.57	575.28	428.41	78.13
.....	.....	.....	947.38	.....	.....	.....	.....
53.19	33.66	488.74	2,835.61	2,517.75	3,459.33	1,802.97	267.31
.....	.....	.....	374.67	.....	.....	.....	.....
376.63	.....	1,287.03	4,491.64	5,702.34	4,642.29	3,832.13	.....
37.23	349.89	2,402.95	10,781.78	5,780.35	8,956.82	5,910.01	1,087.60
30.34	110.00	1,344.57	5,854.91	1,376.20	6,899.51	3,553.89	169.64
.....	.....	493.81	2,218.64	1,424.73	3,816.04	2,241.82	152.43
237.55	192.97	2,701.05	2,543.43	5,769.24	13,383.12	12,518.05	837.27
175.28	310.12	2,217.40	4,365.10	5,147.39	16,246.79	7,788.71	868.27
5,768.47	6,901.18	55,798.73	184,385.65	129,642.85	260,225.60	108,851.97	22,491.87
206.62	1,172.68	1,316.88	31,056.20	23,459.53	58,636.46	15,896.39	2,824.34
.....
277.00	276.00	1,410.00	11,541.00	4,837.00	15,302.00	8,409.00	1,506.00
.....	896.68	.....	19,515.20	18,622.53	43,334.46	7,487.39	1,318.34
70.38	.....	93.12	.....	.....	.....	.....	.....
131	102	985	4,101	2,790	4,435	3,972	470
31	25	194	635	208	604	302	122
3	6	40	106	29	82	27	14
165	133	1,219	4,842	3,027	5,121	4,301	606

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Simcoe	Springfield	Stamford Twp.	Stouffville	Stratford
Population.....	4,581	397	6,650	1,071	18,208
EARNINGS					
Domestic service.....	13,434.70	1,751.54	53,896.04	5,517.15	136,477.08
Commercial light service.....	17,925.78	893.57	5,854.51	2,510.06	45,165.91
Commercial power service.....	11,571.86	3,168.34	4,730.33	1,361.99	49,140.14
Municipal power.....	981.61		1,267.07		9,741.98
Street lighting.....	3,890.74	600.00	6,154.97	1,443.17	15,944.79
Merchandise.....					1,971.64
Miscellaneous.....	272.36	120.23	751.85	307.34	9,962.69
Total earnings.....	48,077.05	6,533.68	72,654.77	11,139.71	268,404.23
EXPENSES					
Power purchased.....	31,183.86	3,873.91	28,596.22	5,146.12	192,431.17
Substation operation.....	527.44				5,119.05
Substation maintenance.....			119.85		1,466.42
Distribution system, operation and maintenance.....	2,693.68	180.53	2,245.42	793.73	6,609.34
Line transformer maintenance.....	250.88		25.44		245.42
Meter maintenance.....	455.13		549.71		1,278.40
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	653.05	66.00	1,106.03	91.36	2,398.63
Promotion of business.....			2,526.43		
Billing and collecting.....	1,374.83	298.48	1,963.67		4,463.76
General office, salaries and expenses.....	1,366.81	98.43	4,903.59	476.05	8,005.66
Undistributed expenses.....	802.19	8.44	912.00		3,113.91
Truck operation and maintenance.....	659.21		1,584.63		1,806.18
Interest.....	3,249.17	241.42	7,540.32	755.29	21,775.00
Sinking fund and principal payments on debentures.....	2,090.23	136.14	4,893.19	1,221.17	10,022.36
Total expenses.....	45,306.48	4,903.35	56,966.50	8,483.72	258,735.30
Gross surplus.....	2,770.57	1,630.33	15,688.27	2,655.99	9,668.93
Gross loss.....					
Depreciation.....	2,468.00	280.00	4,709.00	420.00	16,997.00
Net surplus.....	302.57	1,350.33	10,979.27	2,235.99	
Net loss.....					7,328.07
NUMBER OF CONSUMERS					
Domestic service.....	848	89	1,477	303	4,234
Commercial light service.....	267	35	109	82	595
Power service.....	35	4	13	5	141
Total.....	1,150	128	1,599	390	4,970

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1929

Strathroy 2,702	Sutton 825	Tavistock 965	Tecumseh 2,164	Thames- ford P.V.	Thames- ville 845	Thedford 569	Thorndale P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$.c	\$ c.	\$ c.	\$ c.
17,477.04	6,329.53	6,179.39	15,772.85	2,211.84	4,489.52	2,429.09	1,421.75
9,867.13	2,804.74	1,928.10	3,943.86	1,563.77	4,040.11	1,438.38	988.06
8,897.20	1,281.45	8,153.67	4,326.87	3,275.92	1,666.44	822.20	1,264.18
1,573.80		509.75			271.59		
3,422.25	2,033.00	1,181.28	1,087.00	506.00	1,059.00	1,035.00	372.06
				2.25			
1,023.58		374.45		302.28	268.63	226.52	
42,261.00	12,448.72	18,326.64	25,130.58	7,862.06	11,795.29	5,951.19	4,046.05
27,033.23	6,152.58	14,981.83	11,495.93	4,770.77	6,640.44	3,259.23	2,981.74
212.85							
28.48							
479.65	502.50	520.18	1,264.34	221.25	288.32	200.50	156.89
59.54		25.48	59.05				
519.07		35.05	1,321.64				6.68
			180.48				
736.40	106.31	133.90	315.14	46.04	156.53	40.99	20.43
949.47		425.00		189.77	230.14		97.53
2,987.82	600.25	143.08	1,680.18	117.17	304.12	279.33	61.20
881.87		87.21		62.90	82.46		
230.55							
1,243.24	1,241.81	228.63	1,550.90	134.75	368.06	764.84	84.89
1,638.57	1,087.00	162.18	1,021.51	167.14	465.69	674.45	70.95
37,000.74	9,690.45	16,742.54	18,889.17	5,709.79	8,535.76	5,219.34	3,480.31
5,260.26	2,758.27	1,584.10	6,241.41	2,152.27	3,259.53	731.85	565.74
2,615.00	658.00	610.00	1,210.00	368.00	623.00	289.00	190.00
2,645.26	2,100.27	974.10	5,031.41	1,784.27	2,636.53	442.85	375.74
780	350	245	491	111	207	127	71
179	71	72	51	33	78	39	29
26	3	6	2	8	7	3	1
985	424	323	544	152	292	169	101

STATEMENT

Detailed Operating Reports of Electrical Departments of

**NIAGARA
SYSTEM—Continued**

Municipality.....	Thorold	Tilbury	Tillson- burg	Toronto	Toronto Twp.
Population.....	4,935	1,992	3,257	569,899	7,914
EARNINGS					
Domestic service.....	19,242.41	6,475.48	12,126.96	3,158,127.79	47,354.32
Commercial light service.....	6,450.82	6,959.33	11,509.34	2,841,662.92	11,461.19
Commercial power service.....	11,137.41	13,260.38	10,965.71	3,377,307.86	4,863.57
Municipal power.....	2,974.67	366.66	942.02	1,580,474.76	.....
Street lighting.....	3,552.00	1,542.19	2,741.96	489,833.63	4,501.72
Miscellaneous.....	190.46	699.93	1,746.19	298,832.04	119.61
Total earnings.....	43,547.77	29,303.97	40,628.60	11,746,239.00	68,300.41
EXPENSES					
Power purchased.....	23,708.54	18,992.38	22,703.00	5,716,551.52	30,359.19
Substation operation.....	2,562.31	.....	1,098.36	242,329.01	.....
Substation maintenance.....	.....	.....	.....	217,645.06	.....
Distribution system, operation and maintenance.....	3,394.93	1,340.47	1,517.75	380,860.91	4,735.07
Line transformer maintenance.....	143.40	12.73	102.90	53,519.93	304.96
Meter maintenance.....	348.02	44.54	204.39	93,446.23	863.84
Consumers' premises expenses.....	.....	.....	.....	276,417.28	.....
Street lighting, operation and main- tenance.....	318.18	77.25	271.97	141,955.82	643.50
Promotion of business.....	.....	.....	.....	206,952.84	.....
Billing and collecting.....	.....	910.32	870.62	350,529.82	2,923.51
General office, salaries and expenses.....	1,540.89	385.55	3,745.81	316,857.69	4,229.08
Undistributed expenses.....	532.73	244.75	823.83	225,107.88	1,288.55
Truck operation and maintenance.....	348.32	.....	459.04	.....	1,556.76
Interest.....	140.98	563.70	766.30	1,282,631.36	3,815.66
Sinking fund and principal payments on debentures.....	538.10	535.07	1,281.98	949,113.10	3,434.46
Total expenses.....	33,576.40	23,106.76	33,845.95	10,453,918.45	54,154.58
Gross surplus.....	9,971.37	6,197.21	6,782.65	1,292,320.55	14,145.83
Gross loss.....	.....	.....	.....	.....	.....
Depreciation.....	2,483.00	860.00	2,494.00	659,669.34	6,415.00
Net surplus.....	7,488.37	5,337.21	4,288.65	632,651.21	7,730.83
Net loss.....	.....	.....	.....	.....	.....
NUMBER OF CONSUMERS					
Domestic service.....	1,202	410	826	.....	1,600
Commercial light service.....	206	125	203	.....	147
Power service.....	13	15	29	.....	17
Total.....	1,421	550	1,058	.....	1,764

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1929

Trafalgar Twp. Zone No. 1 3,834	Trafalgar Twp., Zone No. 2*	Walker- ville 10,208	Wallace- burg 4,234	Wards- ville 224	Water- down 871	Waterford 1,070	Waterloo 7,459
11,655.63	2,860.42	109,691.92	16,760.11	978.78	4,277.71	6,649.49	52,180.98
666.02		37,421.05	9,857.78	1,204.92	723.36	1,869.24	23,045.99
944.90		185,472.06	93,451.04		1,728.34	4,504.23	28,639.38
			1,571.51		214.69	302.51	3,348.83
		14,216.18	2,967.00	680.00	930.00	1,614.60	6,769.17
104.00		13,508.94	1,348.79	84.58	139.30	265.95	1,425.00
							287.16
13,370.55	2,860.42	360,310.15	125,956.23	2,948.28	8,013.40	15,206.02	115,696.51
6,251.00	1,449.00	221,425.97	92,216.19	1,449.38	5,436.53	11,621.30	79,571.01
		7,668.84	313.86				2,475.92
		2,449.38					406.21
2,351.74	104.45	5,011.20	2,933.78	88.80	360.21	368.45	3,570.95
		1,351.24	76.76				10.28
	33.83	4,268.33	714.52		124.60	6.23	970.36
		3,794.95	829.20				
		1,920.43	396.69	40.58	66.50	150.18	1,455.32
		884.90	191.81				
		7,462.14	1,108.13		565.12	630.11	2,273.06
1,178.33	261.28	14,069.92	4,696.87	135.72	198.00	342.91	5,368.17
193.47		8,072.40	1,939.71		103.97	99.60	1,175.56
461.96		2,209.18	1,514.36				920.35
923.94	798.85	12,439.52	3,326.85	369.49	103.64		3,777.62
749.66		12,341.01	2,195.99	326.99	429.22		4,017.59
12,110.10	2,647.41	305,369.41	112,454.72	2,410.96	7,387.79	13,218.78	105,992.40
1,260.45	213.01	54,940.74	13,501.51	537.32	625.61	1,987.24	9,704.11
893.00	192.00	13,524.00	3,950.00	182.00	253.00	807.00	7,014.00
367.45	21.01	41,416.74	9,551.51	355.32	372.61	1,180.24	2,690.11
229	112	2,649	977	48	212	315	1,694
2		347	227	25	27	65	225
11		99	28		6	11	70
242	112	3,095	1,232	73	245	391	1,989

*Trafalgar Twp. Zone No. 2. Pop. inc. in Zone 1, 8 months operation.

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality.....	Watford	Welland	Wellesley P.V.	West Lorne	Weston
Population.....	1,030	10,085		795	4,190
EARNINGS					
Domestic service.....	6,071.05	50,099.46	2,603.62	3,147.01	31,491.12
Commercial light service.....	3,429.51	31,796.89	841.84	2,050.19	8,847.93
Commercial power service.....	2,242.92	66,554.90	2,686.58	7,961.50	50,019.47
Municipal power.....	334.30	5,972.77			1,469.92
Street lighting.....	1,236.18	10,821.78	720.00	1,010.04	7,447.17
Merchandise.....	12.18	146.20			
Miscellaneous.....	142.83	6,123.71	17.48	207.19	104.89
Total earnings.....	13,468.97	171,515.71	6,869.52	14,375.93	99,380.50
EXPENSES					
Power purchased.....	8,530.72	83,079.05	4,838.59	13,197.52	65,486.64
Substation operation.....		5,060.82			193.92
Substation maintenance.....		101.78			408.39
Distribution system, operation and maintenance.....	861.96	6,856.54	66.05	141.43	1,445.11
Line transformer maintenance.....		650.20	17.68		31.08
Meter maintenance.....	61.80	3,360.38	3.00	26.24	1,045.19
Consumers premises expenses.....		108.51			
Street lighting, operation and main- tenance.....	93.40	1,131.16	79.77	41.54	1,261.28
Promotion of business.....					
Billing and collecting.....	443.61	4,367.17		819.93	
General office, salaries and expenses.....	525.62	8,036.96	295.47	75.37	4,069.03
Undistributed expenses.....	135.12	2,192.52	62.56	89.93	829.49
Truck operation and maintenance.....	77.06	2,061.81			743.58
Interest.....	261.55	14,623.44	247.14	493.51	2,759.27
Sinking fund and principal payments on debentures.....	575.24	8,217.62	410.26	203.56	2,446.05
Total expenses.....	11,566.08	139,847.96	6,020.52	15,089.03	80,719.03
Gross surplus.....	1,902.89	31,667.75	849.00		18,661.47
Gross loss.....				713.10	
Depreciation.....	611.00	9,917.53	260.00	542.00	4,044.00
Net surplus.....	1,291.89	21,750.22	589.00		14,617.47
Net loss.....				1,255.10	
NUMBER OF CONSUMERS					
Domestic service.....	268	2,215	118	191	1,119
Commercial light service.....	79	416	28	70	174
Power service.....	5	87	4	5	28
Total.....	352	2,718	150	266	1,321

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1929

Wheatley 738	Windsor 66,893	Wood- bridge 717	Wood- stock 10,195	Wyoming 490	York Twp.* 51,584	E. York Twp. 25,100	N. York Twp. 9,510
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,955.10	550,781.13	4,640.53	76,430.20	2,047.75	327,188.76	136,451.58	59,433.15
2,724.45	283,027.45	1,620.09	42,187.71	1,318.78	37,332.94	14,715.32	9,577.93
1,024.74	214,433.98	2,981.75	52,452.03	114.83	71,283.54	43,810.69	7,536.59
.....	21,757.77	378.13	3,279.46	.....	.....	3,229.12	2,947.22
1,924.00	79,969.06	810.00	6,939.38	750.00	46,293.42	16,648.36	4,504.27
.....	5,458.52	91.80	749.40	.....	.....	.....	.....
.....	2,577.47	238.33	2,298.34	17.27	11,866.67	1,207.88	3,174.60
9,628.29	1,158,005.38	10,760.63	184,336.52	4,248.63	493,965.33	216,062.95	87,173.76
5,283.90	665,225.60	6,961.04	119,880.55	2,637.54	184,631.91	108,885.70	33,980.18
.....	16,447.35	.....	2,364.47	.....	15,533.81	.....	.....
.....	8,997.67	.....	42.46	.....	.....	.....	.....
428.36	22,285.87	268.86	4,602.62	203.49	11,323.72	7,487.33	8,218.94
.....	4,043.31	.....	29.90	.....	3,966.31	814.87	313.13
.....	10,149.37	46.36	1,410.37	.....	7,012.48	4,033.87	1,056.63
.....	14,647.70	.....	.....	.....	17,640.59	917.53	.....
313.08	32,230.35	80.06	1,915.62	86.89	6,942.82	1,369.51	579.47
.....	8,130.31	.....	.....	.....	3,836.53	272.94	.....
316.40	33,562.09	.....	3,226.24	125.00	27,450.54	10,007.09	3,299.30
97.10	20,078.92	585.92	4,467.23	256.44	20,445.73	10,923.29	3,648.87
85.21	23,564.65	.....	3,611.99	.....	4,767.50	3,188.54	1,583.70
.....	9,906.96	.....	296.10	.....	.....	3,841.64	4,570.89
568.08	69,894.50	480.05	3,811.41	301.21	139,766.34	16,261.06	11,027.56
487.28	74,139.80	235.37	2,467.63	594.05	17,656.94	11,694.20	5,597.99
7,579.41	1,013,304.45	8,657.66	148,126.59	4,204.62	460,975.22	179,697.57	73,876.66
2,048.88	144,700.93	2,102.97	36,209.93	44.01	32,990.11	36,365.38	13,297.10
441.00	52,770.00	653.00	9,792.00	319.00	14,737.00	9,266.00	6,671.00
1,607.88	91,930.93	1,449.97	26,417.93	.....	18,253.11	27,099.38	6,626.10
.....	.....	.....	.....	274.99	.....	.....	.....
174	15,178	214	2,740	124	Included	7,664	1,870
57	2,416	43	427	43	with	305	159
2	389	6	94	1	Toronto	29	25
233	17,983	263	3,261	168	.....	7,998	2,054

*For year ending December 31, 1928. Included in Toronto figures, not added in summary

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Concluded			GEORGIAN BAY SYSTEM		
Municipality.....	Zurich P.V.	NIAGARA SYSTEM SUMMARY	Alliston	Arthur	Barrie
Population.....			1,329	1,010	7,365
EARNINGS					
Domestic service.....	2,788.03	8,206,062.87	8,709.44	3,979.17	37,971.73
Commercial light service.....	1,763.37	4,804,497.40	5,389.77	3,569.81	20,704.02
Commercial power service.....	52.24	7,460,181.72	2,195.86	1,685.38	12,410.71
Municipal power.....		1,925,044.21	633.05		931.03
Street lighting.....	682.88	1,285,891.27	2,278.00	1,828.33	5,077.00
Merchandise.....		42,040.33			
Miscellaneous.....	190.01	452,158.21	217.15	35.06	1,023.50
Total earnings.....	5,476.53	24,175,876.01	19,423.27	11,097.75	78,117.99
EXPENSES					
Power purchased.....	4,822.30	13,405,978.50	9,635.30	6,863.75	53,940.12
Substation operation.....		389,115.84			202.37
Substation maintenance.....		261,096.66			
Distribution system, operation and maintenance.....	119.64	742,932.41	1,104.44	560.75	3,324.58
Line transformer maintenance.....		84,655.23			474.40
Meter maintenance.....		196,650.90			536.88
Consumers' premises expenses.....		311,483.19			
Street lighting, operation and main- tenance.....	129.27	283,947.77	80.30	47.96	1,803.88
Promotion of business.....		237,641.84			
Billing and collecting.....		600,742.67			1,738.28
General office, salaries and expenses	316.72	739,085.83	885.18	477.07	1,732.40
Undistributed expenses.....		397,113.25			1,014.13
Truck operation and maintenance..		93,089.84			441.65
Interest.....	259.50	1,913,963.65	2,060.71	1,247.46	816.03
Sinking fund and principal payments on debentures.....	141.00	1,511,788.75	1,087.26	573.22	2,278.36
Total expenses.....	5,788.43	21,169,286.33	14,853.19	9,770.21	68,303.08
Gross surplus.....		3,006,589.68	4,570.08	1,327.54	9,814.91
Gross loss.....	311.90				
Depreciation.....	326.00	1,250,559.13	1,124.00	340.00	5,748.00
Net surplus.....		1,756,030.55	3,446.08	987.54	4,066.91
Net loss.....	637.90				
NUMBER OF CONSUMERS					
Domestic service.....	116	342,350	325	156	1,770
Commercial light service.....	47	54,903	104	82	330
Power service.....	2	10,192	14	4	37
Total.....	165	407,445	443	242	2,137

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1929

Beaverton	Beeton	Bradford	Brechin	Cannington	Chatsworth	Chesley	Coldwater
1,018	560	915	P.V.	889	316	1,801	610
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7,094.38	3,392.54	4,719.87	980.98	4,557.85	1,196.35	7,230.25	2,436.09
2,390.31	2,573.77	3,584.63	1,063.45	2,194.62	1,441.66	4,098.54	1,478.17
2,459.10	3,476.61	5,207.87	986.28	890.05	404.30	8,388.14	3,467.01
.....	.....	.....	.....	.....	.....	1,111.33	.....
988.00	1,404.00	1,206.00	450.00	942.50	451.00	1,591.37	528.00
.....	11.70	.....	.....	64.93	.....	.....	.....
233.18	38.54	131.79	150.00	229.08	36.44	673.13	282.67
13,164.97	10,897.16	14,850.16	3,630.71	8,879.03	3,529.75	23,092.76	8,191.94
.....
7,125.57	7,150.46	8,487.74	2,081.74	4,931.61	1,634.15	14,599.83	5,576.00
.....
1,193.34	179.13	562.61	287.05	1,058.60	13.00	1,330.27	655.97
.....
180.25	93.93	68.79	67.42	65.71	22.44	170.58	1.75
.....	.....	.....	.....	.....	.....	314.66	.....
732.99	485.55	697.97	62.97	440.79	312.38	747.44	432.45
.....	.....	.....	.....	.....	.....	109.25	.....
500.23	784.63	1,356.29	248.65	598.24	298.26	785.81	269.85
512.91	367.76	659.39	79.72	488.98	199.30	1,551.96	215.75
10,245.29	9,061.46	11,832.79	2,827.55	7,583.93	2,479.53	19,609.80	7,151.77
.....
2,919.68	1,835.70	3,017.37	803.16	1,295.10	1,050.22	3,482.96	1,040.17
.....
1,032.00	496.00	714.00	117.00	556.00	213.00	1,038.00	208.00
1,887.68	1,339.70	2,303.37	686.16	739.10	837.22	2,444.96	832.17
.....
.....
379	112	190	40	226	57	405	126
57	34	57	27	65	35	102	58
9	6	7	4	11	1	20	4
445	152	254	71	302	93	527	188

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY
SYSTEM—Continued

Municipality.....	Colling- wood	Cooks- town	Creemore	Dundalk	Durham
Population.....	5,652	P.V.	605	560	1,720
EARNINGS					
Domestic service.....	25,081.85	2,063.72	1,984.67	2,302.98	5,460.40
Commercial light service.....	11,759.06	1,576.84	1,977.44	2,242.77	4,230.01
Commercial power service.....	27,917.73	73.96	1,526.95	2,459.27	15,117.81
Municipal power.....	1,393.78				
Street lighting.....	3,352.00	952.00	580.00	930.00	1,760.00
Merchandise.....					
Miscellaneous.....	2,368.82	50.62	263.95	399.91	1,008.28
Total earnings.....	71,873.24	4,717.14	6,333.01	8,334.93	27,576.50
EXPENSES					
Power purchased.....	53,823.60	2,198.33	4,830.80	5,262.77	15,234.78
Substation operation.....	39.73				
Substation maintenace.....	51.22				
Distribution system, operation and maintenance.....	2,088.15	163.58	381.67	800.30	1,235.07
Line transformer maintenance.....					
Meter maintenance.....	156.56				
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	248.55	25.48	56.27	129.37	66.02
Promotion of business.....	8.18				
Billing and collecting.....	2,236.13				
General office, salaries and expenses.....	2,730.76	420.93	198.23	645.60	1,890.08
Undistributed expenses.....	1,042.71				492.60
Truck operation and maintenance.....	200.41				173.76
Interest.....	442.20	621.11	180.64	150.77	724.52
Sinking fund and principal payments on debentures.....	2,172.37	650.34	399.48	287.66	1,917.07
Total expenses.....	65,240.57	4,079.77	6,047.09	7,276.47	21,733.90
Gross surplus.....	6,632.67	637.37	285.92	1,058.46	5,842.60
Gross loss.....					
Depreciation.....	1,332.00	416.00	337.00	388.00	948.00
Net surplus.....	5,300.67	221.37		670.46	4,894.60
Net loss.....			51.08		
NUMBER OF CONSUMERS					
Domestic service.....	1,365	92	145	151	372
Commercial light service.....	259	36	55	76	102
Power service.....	61	2	5	3	12
Total.....	1,685	130	205	230	486

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1929

Elmvale P.V.	Elmwood P.V.	Flesherton 442	Grand Valley 546	Graven- hurst 1,846	Hanover 2,785	Holstein P.V.	Huntsville 2,670
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,241.25	972.39	2,494.05	2,658.35	7,108.78	16,185.05	1,015.50	11,032.22
1,491.82	547.17	1,766.62	2,020.19	4,673.52	6,160.48	575.04	6,626.05
4,033.98	1,478.04	291.65	1,809.24	7,609.50	18,932.48	272.54	14,191.30
128.71				963.93	408.70		1,126.67
658.80	483.00	519.02	832.00	1,708.66	3,461.16	490.00	2,316.00
				538.37			
107.84	40.29	38.12	323.45	880.31	1,734.24		228.77
• 8,662.40	3,520.89	5,109.46	7,643.23	23,483.07	46,882.11	2,353.08	35,521.01
5,239.11	1,939.29	2,886.95	5,016.64	11,327.42	30,440.55	1,464.29	24,215.89
722.55	11.29	130.24	119.98	1,600.89	2,340.45	59.51	3,118.91
					169.47		
					122.94		
48.35	9.78	54.30	59.35	315.23	173.72		51.10
281.25	160.95	321.05	561.79	1,849.95	925.61		
					531.90	143.51	1,869.54
					529.79		
232.82	276.55	452.21	358.85	1,131.39	212.42		
					3,478.27	237.34	475.15
229.99	361.00	208.10	601.71	2,788.20	4,184.31	172.58	1,470.88
6,754.07	2,758.86	4,052.85	6,718.32	19,013.08	43,109.43	2,077.23	31,201.47
1,908.33	762.03	1,056.61	924.91	4,469.99	3,772.68	275.85	4,319.54
195.00	204.00	252.00	452.00	1,280.00	2,770.00	95.00	881.00
1,713.33	558.03	804.61	472.91	3,189.99	1,002.68	180.85	3,438.54
148	50	122	133	411	668	48	518
55	19	40	53	62	116	17	96
9	1	1	2	14	17	1	12
212	70	163	188	487	801	66	626

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY
SYSTEM—Continued

Municipality.....	Kincardine	Kirkfield P.V.	Lucknow	Markdale	Meaford
Population.....	2,131		1,062	797	2,747
EARNINGS					
Domestic service.....	13,364.67	681.12	6,187.28	3,182.94	10,846.86
Commercial light service.....	7,537.29	693.77	3,360.79	2,369.41	5,861.34
Commercial power service.....	7,482.67	357.34	4,010.84	1,053.51	4,854.61
Municipal power.....	1,625.92			81.00	814.05
Street lighting.....	3,679.74	460.00	1,722.00	672.00	3,001.30
Merchandise.....					
Miscellaneous.....	974.39		177.21	140.52	863.51
Total earnings.....	34,664.68	2,192.23	15,458.12	7,499.38	26,241.67
EXPENSES					
Power purchased.....	18,803.04	1,072.89	9,995.43	4,322.22	12,424.60
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	2,614.49	225.23	445.89	149.88	1,416.18
Line transformer maintenance.....					109.17
Meter maintenance.....					98.48
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	305.21	29.49	78.82	113.80	220.26
Promotion of business.....					
Billing and collecting.....	913.39				785.65
General office, salaries and expenses.....	923.44	8.80	990.01	537.15	2,087.52
Undistributed expenses.....					265.68
Truck operation and maintenance.....	161.30				181.30
Interest.....	2,649.21	314.87	875.26	417.00	2,290.13
Sinking fund and principal payments on debentures.....	2,524.01	259.96	770.22	242.77	2,436.38
Total expenses.....	28,894.09	1,911.24	13,155.63	5,782.82	22,315.35
Gross surplus.....	5,770.59	280.99	2,302.49	1,716.56	3,926.32
Gross loss.....					
Depreciation.....	1,600.00	174.00	594.00	514.00	1,143.00
Net surplus.....	4,170.59	106.99	1,708.49	1,202.56	2,783.32
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	536	26	259	180	611
Commercial light service.....	121	17	84	74	135
Power service.....	21	1	5	9	16
Total.....	678	44	348	263	762

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1929

Midland 7,820	Mount Forest 1,911	Neustadt 408	Orangeville 2,679	Owen Sound 12,368	Paisley 730	Penetang- uishene 3,985
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
32,987.28	7,074.82	2,067.97	10,795.50	51,778.54	3,547.23	8,858.60
12,513.31	5,205.06	1,528.91	8,119.34	33,303.32	2,194.52	3,316.44
86,725.75	4,954.66	120.08	7,249.17	33,066.24	1,201.38	9,915.24
3,038.44	1,365.99	.....	669.90	.....	.....	1,773.17
5,997.92	2,354.00	975.00	3,217.00	9,875.00	1,408.00	1,875.00
.....	.....	.....	.....	.....	.....	6.34
1,782.21	464.01	.....	106.56	933.49	180.10	723.55
143,044.91	21,418.54	4,491.96	30,157.67	128,856.59	8,531.23	26,468.54
92,262.08	10,884.13	2,944.64	16,864.73	83,609.34	5,762.46	16,541.61
2,034.89	.....	.....	.....	5,761.36	.....	1,930.76
1,815.84	.....	.....	.....	.....	.....	16.35
3,961.30	1,682.24	155.82	1,586.14	2,926.41	157.46	1,817.25
454.08	.....	.....	.....	349.90	.....	142.66
387.81	.....	.....	.....	1,200.22	.....	33.85
.....
1,144.46	269.89	46.76	140.90	2,845.23	135.18	291.65
527.28	.....	.....	.....	.....	.....	.....
2,806.41	.....	.....	994.82	3,408.98	.....	1,058.53
2,211.54	1,171.58	361.35	265.55	6,630.04	444.25	563.01
2,712.67	.....	.....	.....	3,008.35	.....	434.50
414.60	.....	.....	.....	1,129.83	.....	154.57
3,050.25	870.54	986.45	1,134.29	1,342.54	749.90	1,389.31
3,013.48	1,130.60	801.85	1,952.50	1,679.20	599.72	1,634.63
118,496.69	16,008.58	5,294.87	22,938.73	114,891.37	7,848.97	25,990.66
24,548.22	5,409.96	.....	7,218.94	13,965.22	682.26	477.68
.....	.....	802.91	.....	.....	.....	.....
7,946.00	1,107.00	508.00	1,413.00	6,232.00	464.00	611.00
16,602.22	4,302.96	.....	5,805.94	7,733.22	278.26	.....
.....	.....	1,510.91	.....	.....	.....	483.32
.....
1,560	394	90	619	2,950	168	537
236	136	26	157	523	49	98
62	12	2	29	121	4	26
1,858	542	118	805	3,594	221	661

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY
SYSTEM—Continued

Municipality.....	Port McNicoll 879	Port Perry 1,150	Priceville P.V.	Ripley 449	Shelburne 1,120
Population.....					
EARNINGS					
Domestic service.....	3,123.44	6,654.25	538.17	2,791.34	5,498.07
Commercial light service.....	564.61	1,899.07	278.33	2,403.90	3,870.54
Commercial power service.....	72.45	3,524.00			2,418.90
Municipal power.....		498.73			515.38
Street lighting.....	506.00	1,402.89	560.00	1,330.25	1,052.88
Merchandise.....					
Miscellaneous.....		505.23		33.83	246.88
Total earnings.....	4,266.50	14,484.17	1,376.50	6,559.32	13,602.65
EXPENSES					
Power purchased.....	2,463.50	7,412.88	975.76	3,870.64	7,815.21
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	56.62	810.71	2.88	222.47	728.83
Line transformer maintenance.....					
Meter maintenance.....					
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	16.36	29.50	3.20	83.84	112.30
Promotion of business.....					
Billing and collecting.....					524.85
General office, salaries and expenses.....	478.55	763.14	37.16	379.84	105.84
Undistributed expenses.....					
Truck operation and maintenance.....		444.21			
Interest.....	259.76	1,167.84	405.29	727.47	623.37
Sinking fund and principal payments on debentures.....	381.96	592.09	374.04	302.41	1,083.03
Total expenses.....	3,656.75	11,220.37	1,798.33	5,586.67	10,993.43
Gross surplus.....	609.75	3,263.80		972.65	2,609.22
Gross loss.....			421.83		
Depreciation.....	324.00	686.00	147.00	347.00	760.00
Net surplus.....	285.75	2,577.80		625.65	1,849.22
Net loss.....			568.83		
NUMBER OF CONSUMERS					
Domestic service.....	159	271	25	100	295
Commercial light service.....	28	72	9	46	94
Power service.....	1	12			8
Total.....	188	355	34	146	397

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1929

Stayner 967	Sunderland P.V. P.V.	Tara 453	Teeswater 803	Thornton P.V. P.V.	Tottenham 535	Unbridge 1,417
\$	\$	\$	\$	\$	\$	\$
3,518.57	1,811.39	1,891.46	4,762.41	1,081.51	2,875.90	6,318.92
2,157.84	1,877.40	1,836.87	1,041.25	555.99	1,047.96	1,618.94
2,121.79	372.54	1,129.85	811.11	364.50	838.57	2,546.54
					398.84	
1,200.00	567.00	1,675.00	1,408.00	649.00	1,125.00	1,648.00
408.34	11.11		57.36			417.36
9,327.11	4,372.51	7,531.38	10,606.36	2,651.97	7,006.25	14,637.36
5,043.87	1,691.44	1,698.45	5,095.50	1,649.17	5,134.11	7,436.56
884.57	169.90	270.81	275.40	31.50	364.21	451.13
123.20	58.36	384.72	66.10	14.68	1.50	45.76
521.97	254.58	451.01	591.11	44.50	171.36	675.86
365.63	265.62	959.61	1,116.99	511.57	579.57	974.50
359.34	253.72	761.05	880.55	816.45	362.64	170.34
7,803.79	3,775.90	5,049.87	7,879.54	2,951.71	6,014.99	10,856.90
2,101.43	596.00	1,582.41	2,706.92	200.00	994.07	1,690.56
443.00	254.00	441.00	541.00	261.00	343.00	549.00
1,740.41	394.00	940.41	2,164.92		649.07	2,131.56
				60.64		
213.13	67.39	114.24	208.00	49.07	139.50	311.94
50	3	4	5	2	9	15
306	134	156	273	64	182	429

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY
SYSTEM—Concluded

Municipality.....	Victoria Harbor	Waubashene P.V.	Wingham	Woodville	GEORGIAN BAY SYSTEM SUMMARY
Population.....	1,382		2,266	407	
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,523.29	1,864.11	12,758.55	1,750.71	375,732.47
Commercial light.....	935.89	438.35	8,191.59	1,043.00	214,677.39
Commercial power.....	14.64	353.28	12,982.07	1,153.81	326,302.95
Municipal power.....	55.49	96.16	324.01		17,816.48
Street lighting.....	684.00	369.00	3,534.00	486.00	88,911.90
Merchandise.....			1,016.82		1,638.16
Miscellaneous.....	9.58	11.43	781.71	221.50	19,557.13
Total earnings.....	4,222.89	3,132.33	39,588.75	4,655.02	1,044,636.48
EXPENSES					
Power purchased.....	2,420.66	1,323.45	19,957.09	2,443.10	641,487.29
Substation operation.....			1,958.50		11,927.61
Substation maintenance.....					1,883.41
Distribution system, operation and maintenance.....	208.97	95.04	2,536.45	457.66	47,530.03
Line transformer maintenance.....					1,699.68
Meter maintenance.....					3,536.74
Consumers' premises expenses.....					
Street lighting, operation and maintenance.....	51.11	29.84	347.05	24.54	10,582.09
Promotion of business.....					535.46
Billing and collecting.....			556.38		15,963.46
General office, salaries and expenses.....	404.50	347.32	910.29	184.24	41,343.35
Undistributed expenses.....			486.29		9,986.72
Truck operation and maintenance.....			225.55		3,828.85
Interest.....	170.02	102.20	3,146.86	247.40	45,133.04
Sinking fund and principal payments on debentures.....	373.91	202.95	3,209.59	185.75	53,389.04
Total expenses.....	3,629.17	2,100.80	33,334.05	3,542.69	888,826.77
Gross surplus.....	593.72	1,031.53	6,254.70	1,112.33	155,809.71
Gross loss.....					
Depreciation.....	346.00	218.00	2,250.00	184.00	51,784.00
Net surplus.....	247.72	813.53	4,004.70	928.33	104,025.71
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	147	112	535	93	18,798
Commercial light service.....	26	18	160	27	4,450
Power service.....	2	6	26	3	670
Total.....	175	136	721	123	23,918

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1929

EASTERN ONTARIO SYSTEM

Alexandria 2,284	Apple Hill P.V.	Athens 625*	Belleville 13,018**	Bloomfield 572	Brockville 9,322	Carleton Place 4,293
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7,499.97	1,006.38	3,428.70	55,848.20	2,652.87	33,660.73	18,394.53
4,979.16	751.54	1,714.13	38,179.11	867.69	21,919.98	9,373.18
6,358.75	227.06		28,653.98	3,067.44	36,188.35	21,533.98
1,877.49			6,535.92		6,239.00	2,419.91
2,840.00	391.00	1,888.75	7,259.30	780.00	8,575.00	3,230.10
			1,106.31			98.63
117.49			1,430.02	212.03	6,884.57	1,290.17
23,672.86	2,375.98	7,031.58	139,012.84	7,580.03	113,467.63	56,340.50
13,068.69	1,613.08	4,473.80	74,920.29	5,089.79	56,120.05	26,321.16
					5,153.58	
					524.33	123.31
1,545.80	100.46	107.68	2,257.64	167.07	2,687.19	2,390.19
		80.91	226.81		157.42	99.19
			1,414.66		1,565.75	378.52
250.87	58.56	77.25	1,000.03	68.61	1,552.61	377.68
					60.00	
			1,975.81		1,355.52	1,463.98
1,338.73	307.32	337.78	8,274.15	336.43	6,340.50	3,008.17
			1,364.95		1,788.10	472.50
					832.19	709.64
1,909.98	283.12	955.49	6,270.00	541.01	7,335.24	3,242.64
2,217.12	240.76	401.51	4,098.66	319.86	8,292.48	1,908.69
20,331.19	2,603.30	6,434.42	101,803.00	6,522.77	93,764.96	40,495.67
3,341.67		597.16	37,209.84	1,057.26	19,702.67	15,844.83
	227.32					
1,135.00	133.00	340.00	3,630.00	372.00	6,175.00	1,600.00
2,206.67		257.16	33,579.84	685.26	13,527.67	14,244.83
	360.32					
297	37	120	2,954	145	2,406	901
105	17	38	500	25	421	190
14	1		92	7	72	17
416	55	158	3,546	177	2,899	1,108

*11 months' operation. **9 months' operation.

STATEMENT

Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO SYSTEM—Continued

Municipality.....	Chester- ville	Finch	Havelock	Kempt- ville	Kingston
Population.....	1,013	344	1,134	1,269	21,365
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	4,282.23	1,940.27	6,343.23	5,644.19	99,006.16
Commercial light.....	2,375.93	1,638.77	1,894.48	3,566.50	74,933.59
Commercial power.....	4,638.96	1,413.60	6,490.71	4,593.20	66,058.76
Municipal power.....					7,984.20
Street lighting.....	1,032.00	775.00	1,566.00	1,824.50	20,000.00
Merchandise.....	782.75			510.90	
Miscellaneous.....	375.94		163.35	930.13	5,713.98
Total earnings.....	13,487.81	5,767.64	16,457.77	17,069.42	273,696.69
EXPENSES					
Power purchased.....	9,039.49	2,658.90	10,015.10	7,460.59	99,980.04
Substation operation.....					4,577.60
Substation maintenance.....					3,487.63
Distribution system, operation and maintenance.....	1,016.23	96.10	886.06	2,032.32	12,651.80
Line transformer maintenance.....					1,497.04
Meter maintenance.....					4,842.66
Consumers' premises expenses.....					2,016.50
Street lighting, operation and main- tenance.....	107.04	42.65	158.84	176.75	6,846.54
Promotion of business.....					114.64
Billing and collecting.....					6,264.32
General office, salaries and expenses..	779.96	221.50	403.41	1,129.28	9,436.35
Undistributed expenses.....					22,381.11
Truck operation and maintenance.....			257.22	285.84	2,321.56
Interest.....	186.22	537.97	1,461.96	1,368.79	12,890.77
Sinking fund and principal payments on debentures.....	154.10	201.71	1,406.41	504.01	11,068.76
Total expenses.....	11,283.04	3,758.83	14,589.00	12,957.58	200,377.32
Gross surplus.....	2,204.77	2,008.81	1,868.77	4,111.84	73,319.37
Gross loss.....					
Depreciation.....	490.00	203.00	722.00	717.00	15,906.00
Net surplus.....	1,714.77	1,805.81	1,146.77	3,394.84	57,413.37
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	212	67	289	267	5,240
Commercial light service.....	60	33	50	78	814
Power service.....	3	1	3	6	135
Total.....	275	101	342	351	6,189

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1929

Lakefield	Lanark	Lancaster	Lindsay	Marmora	Martintown	Maxville
1,469	579	560	7,231	853	P.V.	774
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,133.18	2,240.73	1,935.65	40,905.87	3,315.56	870.92	2,964.74
5,092.93	1,182.53	2,211.59	26,086.87	1,793.93	845.50	1,985.41
3,040.66	122.63		32,495.11	474.28		260.16
			3,518.76			
1,827.00	672.17	1,495.50	7,796.29	1,566.00	300.00	2,196.25
			175.45			
584.57	111.79		764.06	35.61	76.21	14.50
16,678.34	4,329.85	5,642.74	111,742.41	7,185.38	2,092.63	7,421.06
8,135.82	2,374.90	3,380.82	59,795.65	4,053.95	995.24	4,621.90
1,649.95	79.64	124.94	3,861.13	137.42	13.00	141.15
			1,074.05			
			493.02			
34.33	21.82	57.84	1,863.21	37.60	61.81	151.27
			2,165.84			
563.97	312.00	226.96	7,109.03	521.14	70.44	314.12
			686.25			
			625.93			
2,013.96	337.21	734.96	6,080.13	756.93	261.55	700.18
642.90	367.89	563.26	3,931.54	837.55	259.97	704.22
13,040.93	3,493.46	5,088.78	87,685.78	6,344.59	1,662.01	6,632.84
3,637.41	836.39	553.96	24,056.63	840.79	430.62	788.22
877.00	203.00	233.00	2,710.60	462.00	111.00	420.00
2,760.41	633.39	320.96	21,346.03	378.79	319.62	368.22
289	115	71	1,802	184	33	128
76	33	39	336	48	19	46
7	2		71	3		2
372	150	110	2,209	235	52	176

STATEMENT

Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO
SYSTEM—Continued

Municipality.....	Norwood	Omemeë	Oshawa*	Perth	Peterboro
Population.....	752	511	20,609	3,712	21,768
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	4,319.15	2,281.74	158,949.20	20,952.57	104,348.25
Commercial light.....	2,301.73	1,101.55	63,967.16	12,955.75	65,659.13
Commercial power.....	1,871.15	303.87	196,391.23	14,085.12	96,976.26
Municipal power.....			6,295.83	2,489.37	7,323.30
Street lighting.....	1,551.00	916.43	9,846.00	2,080.96	18,662.06
Merchandise.....			257.42	2,947.33	
Miscellaneous.....	222.92		5,006.85	198.05	4,714.14
Total earnings.....	10,265.95	4,603.59	440,713.69	55,709.15	297,683.14
EXPENSES					
Power purchased.....	4,554.57	2,715.24	315,846.18	22,589.56	176,311.08
Substation operation.....				360.00	5,232.01
Substation maintenance.....					1,174.47
Distribution system, operation and Maintenance.....	755.70	404.08	8,905.97	1,820.47	9,946.75
Line transformer maintenance.....			1,796.07	115.55	442.92
Meter maintenance.....			3,375.33	172.56	5,717.68
Consumers' premises expenses.....			19.74		480.00
Street lighting, operation and main- tenance.....	44.88	37.49	1,368.19	230.95	5,066.60
Promotion of business.....			99.41		3,000.00
Billing and collecting.....			7,001.17	1,314.93	7,723.57
General office, salaries and expenses.....	340.10	293.35	15,252.40	2,258.47	6,519.73
Undistributed expenses.....			5,951.10	855.66	8,885.41
Truck operation and maintenance.....	260.26			567.26	4,303.56
Interest.....	1,986.15	429.42	13,497.92	3,446.49	26,643.78
Sinking fund and principal payments on debentures.....	812.86	602.31	8,823.50	1,440.94	14,263.54
Total expenses.....	8,754.52	4,481.89	381,936.98	35,172.84	275,711.10
Gross surplus.....	1,511.43	121.70	58,776.71	20,536.31	21,972.04
Gross loss.....					
Depreciation.....	861.00	479.00	6,912.00	2,521.97	13,236.00
Net surplus.....	650.43		51,864.71	18,014.34	8,736.04
Net loss.....		357.30			
NUMBER OF CONSUMERS					
Domestic service.....	206	127	6,241	816	5,150
Commercial light service.....	66	36	517	179	745
Power service.....	4	7	99	24	155
Total.....	276	170	6,857	1,019	6,050

*11 months' operation.

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1929

Picton 3,266	Prescott 2,724	Russell P.V.	Smiths Falls 7,105	Warkworth P.V.	Wellington 832	Whitby 5,195*
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
18,142.51	12,770.09	2,369.34	41,055.96	1,827.93	4,386.64	17,606.51
9,260.24	7,752.19	1,446.23	16,454.79	1,389.67	1,976.58	9,428.47
8,065.54	3,736.35		28,113.46		2,954.92	15,171.84
2,377.84	1,603.93					2,278.40
3,581.72	3,425.00	1,012.00	6,713.36	692.14	883.98	3,301.12
1,583.50						16.54
1,582.48	611.80		1,887.79	150.50	311.82	175.46
44,593.83	29,899.36	4,827.57	94,225.36	4,060.24	10,513.94	47,978.34
32,579.38	17,274.97	3,055.24	34,161.34	2,407.38	5,669.87	31,162.08
	1,730.23		1,538.32			59.95
1,954.16	2,683.40	89.05	5,384.02	73.98	707.12	3,723.32
26.00	429.20		14.32			119.90
			260.56			251.04
916.45	597.92	127.04	1,175.65	35.77	26.25	690.19
1,031.04	1,090.79		2,062.21			1,513.99
3,179.99	2,097.25	275.97	3,288.02	206.63	489.98	1,512.71
582.28	724.12		1,536.42			702.30
404.66			615.86			225.30
24.86	475.51	529.45	7,432.03	623.48	911.68	2,189.46
480.43	1,451.51	336.77	9,763.36	175.66	497.61	2,033.14
41,179.25	28,554.90	4,413.52	67,232.11	3,522.90	8,302.51	44,183.38
3,414.58	1,344.46	414.05	26,993.25	537.34	2,211.43	3,794.96
1,498.00	2,239.00	235.00	4,979.00	171.00	628.00	1,947.64
1,916.58		179.05	22,014.25	366.34	1,583.43	1,847.32
	894.54					
926	613	102	1,600	87	259	784
182	166	33	258	41	61	146
47	19		43		8	15
1,155	798	135	1,901	128	328	945

*Population includes 1,475 hospital patients.

STATEMENT

Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO SYSTEM—Concluded				OTTAWA SYSTEM	
Municipality.....	Williams- burg P.V.	Winchester	EASTERN SYSTEM SUMMARY	Ottawa	Richmond
Population.....		992		120,799	365
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	1,186.24	5,258.47	693,528.71	299,943.05	1,298.53
Commercial light.....	475.51	2,751.04	398,312.86	145,011.53	1,513.84
Commercial power.....	200.35	754.66	584,242.38	63,693.22	
Municipal power.....			50,943.95	30,981.72	
Street lighting.....	234.00	1,053.00	119,967.63	68,445.27	756.00
Merchandise.....		433.22	7,912.05		
Miscellaneous.....	69.25	400.00	34,035.48	1,446.70	
Total earnings.....	2,165.35	10,650.39	1,888,943.06	609,521.49	3,568.37
EXPENSES					
Power purchased.....	1,407.02	7,326.56	1,051,179.73	248,663.73	2,095.82
Substation operation.....			18,651.69	14,054.13	
Substation maintenance.....			5,309.74		
Distribution system, operation and maintenance.....	48.19	706.79	69,148.77	25,534.25	97.65
Line transformer maintenance.....			4,550.13	1,192.39	
Meter maintenance.....			19,508.01	9,163.47	
Consumers' premises expenses.....			3,009.26		
Street lighting, operation and maintenance.....	49.02	185.41	23,497.12	29,600.32	5.75
Promotion of business.....			3,274.05	8,104.83	
Billing and collecting.....			34,963.17	34,605.11	
General office, salaries and ex- penses.....	94.76	988.98	77,829.58	21,094.85	174.34
Undistributed expenses.....			45,930.20	29,920.83	
Truck operation and maintenance.....			11,409.28		
Interest.....	54.32	476.39	106,589.05	43,463.44	475.57
Sinking fund and principal pay- ments on debentures.....	164.67	304.41	79,272.11	19,673.51	176.70
Total expenses.....	1,817.98	9,988.54	1,554,121.89	485,070.86	3,025.83
Gross surplus.....	347.37	661.85	334,821.17	124,450.63	542.54
Gross loss.....					
Depreciation.....	121.00	506.00	72,774.21	55,906.49	152.00
Net surplus.....	226.37	155.85	262,046.96	68,544.14	390.54
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	55	270	32,793	11,734	36
Commercial light service.....	19	63	5,440	1,459	27
Power service.....	1	3	861	211	
Total.....	75	336	39,094	13,404	63

“B”—Concluded

Hydro Municipalities for Year Ended December 31, 1929

THUNDER BAY SYSTEM					
OTTAWA SYSTEM SUMMARY	Fort William 23,544	Nipigon P.V.	Port Arthur 18,305	THUNDER BAY SYSTEM SUMMARY	ALL SYSTEMS GRAND SUMMARY
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
301,241.58	192,889.88	2,212.42	102,013.64	297,115.94	9,873,681.57
146,525.37	67,548.50	1,858.87	64,345.67	133,753.04	5,697,766.06
63,693.22	49,709.10		892,029.37	941,738.47	9,376,158.74
30,981.72	22,845.97		38,811.91	61,657.88	2,086,444.24
69,201.27	18,075.44	775.00	15,439.92	34,290.36	1,598,262.43
					51,590.54
1,446.70			15,583.43	15,583.43	522,780.95
613,089.86	351,068.89	4,846.29	1,128,223.94	1,484,139.12	29,206,684.53
250,759.55	214,815.37	1,502.48	813,439.96	1,029,757.81	16,379,162.88
14,054.13	5,887.97		21,633.03	27,521.00	461,270.27
	461.21		5,524.54	5,985.75	274,275.56
25,631.90	9,071.75	278.81	13,223.37	22,573.93	907,817.04
1,192.39	1,001.55		509.16	1,510.71	93,608.14
9,163.47	8,492.57		4,774.58	13,267.15	242,126.27
	2.58			2.58	314,495.03
29,606.07	7,001.76	38.65	4,699.94	11,740.35	359,373.40
8,104.83			1,288.10	1,288.10	250,844.28
34,605.11	4,929.88		4,525.13	9,455.01	695,729.42
21,269.19	9,206.07	669.77	14,621.85	24,497.69	904,025.64
29,920.83	6,415.99		12,839.07	19,255.06	502,206.06
			2,302.65	2,302.65	110,630.62
43,939.01	21,889.05	489.43	20,692.26	43,070.74	2,152,695.49
19,850.21	13,162.68	343.20	9,395.65	22,901.53	1,687,201.64
488,096.69	302,338.43	3,322.34	929,469.29	1,235,130.06	25,335,461.74
124,993.17	48,730.46	1,523.95	198,754.65	249,009.06	3,871,222.79
56,058.49	14,772.00	329.00	23,570.00	38,671.00	1,469,846.83
68,934.68	33,958.46	1,194.95	175,184.65	210,338.06	2,401,375.96
11,770	5,518	101	4,006	9,625	415,336
1,486	912	36	744	1,692	67,971
211	99		106	205	12,139
13,467	6,529	137	4,856	11,522	495,446

STATEMENT "C"

Street Lighting Installation in Hydro Municipalities, December 31, 1929, showing
Cost per Lamp, Cost per Year, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
				\$ c.	\$ c.	\$ c.
Acton.....	1,973	{ 124 62 3	80 c.p. <i>s</i> 100 watt <i>m</i> 300 watt <i>m</i>	9.00 9.00 20.00	1,736.25	.88
Agincourt.....		52	100 watt <i>m</i>	13.00	675.96	**
Ailsa Craig.....	521	56	100 watt <i>m</i>	10.00	560.00	1.07
Alexandria.....	2,284	{ 94 41	100 watt <i>m</i> 200 watt <i>m</i>	18.00 28.00	2,840.00	1.24
Alliston.....	1,329	{ 101 12 1	100 c.p. <i>s</i> 100 watt <i>m</i> 100 watt <i>m</i>	20.00 20.00 18.00	2,278.00	1.71
Alvinston.....	635	{ 84 6	100 watt <i>m</i> 200 watt <i>m</i>	20.00 29.00	1,855.92	2.92
Amherstburg....	3,017	{ 80 7 12 22	100 c.p. <i>s</i> 250 c.p. <i>s</i> 300 watt <i>m</i> 200 watt <i>m</i>	10.50 24.00 32.50 20.00	1,731.33	0.57
Ancaster Twp.....		{ 81 4	100 watt <i>m</i> 300 watt <i>m</i>	12.00 26.00	1,076.00	**
Apple Hill.....		23	100 watt <i>m</i>	17.00	391.00	**
Arkona.....	385	48	100 watt <i>m</i>	20.00	960.00	2.49
Arthur.....	1,010	{ 83 4	100 watt <i>m</i> 200 watt <i>m</i>	20.00 33.00	1,828.33	1.81
Athens.....	625	{ 40 23	100 watt <i>m</i> 200 watt <i>m</i>	25.00 45.00	1,888.75	†
Aylmer.....	2,050	{ 160 23 1	100 watt <i>m</i> 300 watt <i>m</i> 1,000 watt <i>m</i>	10.00 25.00 50.00	2,064.55	1.01
Ayr.....	789	{ 89 3	100 watt <i>m</i> 500 watt <i>m</i>	10.00 36.00	988.10	1.25
Baden.....		65	100 watt <i>m</i>	8.00	520.00	**
Barrie.....	7,365	{ 453 15 41 23	150 c.p. <i>s</i> 100 watt <i>m</i> 200 watt <i>m</i> 300 watt <i>m</i>	8.00 15.00 18.00 22.00	5,077.00	0.69
Barton Twp.....		18	100 watt <i>m</i>	14.00	252.00	**
Beachville.....		48	100 watt <i>m</i>	11.00	528.00	**

**Population not shown in Government statistics.
†11 months' operation.

*s*Series system.

*m*Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1929, showing Cost per Lamp, Cost per Year, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
				\$ c.	\$ c.	\$ c.
Beaverton.....	1,018	{ 6 88 9 8 12	{ 500 watt <i>m</i> 100 watt <i>m</i> 100 watt <i>m</i> 100 watt <i>m</i> 100 watt <i>m</i>	{ 40.00 8.00 8.00 14.00 18.00	988.00	0.97
Beeton.....	560	{ 64 14	{ 100 c.p. <i>s</i> 100 watt <i>m</i>	{ 18.00 18.00	1,404.00	2.51
Belle River.....	791	75	100 watt <i>m</i>	11.00	825.00	1.04
Blenheim.....	1,591	{ 136 4 13	{ 150 c.p. <i>s</i> 400 c.p. <i>s</i> 600 c.p. <i>s</i>	{ 12.00 28.00 37.00	2,427.50	1.53
Bloomfield.....	572	52	100 c.p. <i>s</i>	15.00	780.00	1.36
Blyth.....	641	100	100 watt <i>m</i>	13.00	1,293.50	2.02
Bolton.....	599	56	100 watt <i>m</i>	14.00	788.74	1.32
Bothwell.....	630	{ 65 21	{ 100 watt <i>m</i> 300 watt <i>m</i>	{ 11.00 28.00	1,306.52	2.01
Bradford.....	915	{ 60 7	{ 100 c.p. <i>s</i> 100 watt <i>m</i>	{ 18.00 18.00	1,206.00	1.32
Brampton.....	5,100	{ 638 2	{ 100 watt <i>m</i> 500 watt <i>m</i>	{ 8.00 35.00	5,183.00	1.02
Brantford.....	28,903	{ 3479 10 12 2 20 150	{ 100 watt <i>m</i> 150 watt <i>m</i> 200 watt <i>m</i> 500 watt <i>m</i> 750 watt <i>m</i> 1500 c.p. <i>s</i>	{ 7.50 8.50 11.00 45.00 46.00 45.00	34,047.65	††
Brantford Twp.....		351	100 watt <i>m</i>	13.00	4,457.92	**
Brechin.....		25	100 watt <i>m</i>	18.00	450.00	**
Bridgeport.....		45	100 watt <i>m</i>	10.00	450.00	**
Brigden.....		{ 39 20	{ 100 watt <i>m</i> 200 watt <i>m</i>	{ 15.00 26.50	1,121.46	**
Brockville.....	9,322	{ 572 15 38 52 6	{ 100 c.p. <i>s</i> 1-Lt. std. <i>m</i> 3-Lt. stds. <i>m</i> 5-Lt. stds. <i>m</i> 300 watt <i>m</i>	{ 11.00 17.00 21.00 24.00 24.00	8,575.00	0.92
Brussels.....	736	{ 79 18	{ 100 watt <i>m</i> 200 watt <i>m</i>	{ 12.00 18.00	1,272.00	1.73

**Population not shown in Government statistics. *s*Series system. *m*Multiple system.

††Part of cost paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1929, showing Cost per Lamp, Cost per Year, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
Burford.....		67	100 watt <i>m</i>	\$ c. 13.00	\$ c. 871.08	**
Burgessville.....		23	100 watt <i>m</i>	13.00	299.00	**
Caledonia.....	1,450	{ 164 20	100 watt <i>m</i> 200 watt <i>m</i>	{ 8.00 13.00 }	1,562.01	1.07
Campbellville.....		19	100 watt <i>m</i>	24.00	456.00	**
Cannington.....	889	74	100 watt <i>m</i>	13.00	942.50	1.06
Carleton Place...	4,293	{ 172 22 67	60 watt <i>m</i> 200 watt <i>m</i> 300 watt <i>m</i>	{ 10.00 15.00 20.00 }	3,230.10	0.75
Cayuga.....	619	84	100 watt <i>m</i>	18.00	1,501.50	2.43
Chatham.....	15,509	{ 41 728 90 72	150 c.p. <i>s</i> 150 c.p. <i>s</i> 600 c.p. <i>s</i> 1,000 c.p. <i>s</i>	{ 12.00 13.00 30.00 38.00 }	15,206.84	0.98
Chatsworth.....	316	41	100 watt <i>m</i>	11.00	451.00	1.43
Chesley.....	1,801	113	100 c.p. <i>s</i>	14.00	1,591.37	0.88
Chesterville.....	1,013	86	100 watt <i>m</i>	12.00	1,032.00	1.02
Chippawa.....	1,207	84	100 watt <i>m</i>	12.00	1,008.00	0.84
Clifford.....	493	54	100 watt <i>m</i>	15.00	810.00	1.64
Clinton.....	1,936	{ 157 11 1	150 c.p. <i>s</i> 100 watt <i>m</i> 500 watt <i>m</i>	{ 11.00 11.00 55.00 }	1,950.92	1.01
Coldwater.....	610	48	100 watt <i>m</i>	11.00	528.00	0.87
Collingwood.....	5,652	419	150 c.p. <i>s</i>	8.00	3,352.00	0.59
Comber.....		{ 42 12	100 watt <i>m</i> 200 watt <i>m</i>	{ 12.00 18.00 }	707.00	**
Cookstown.....		56	100 c.p. <i>s</i>	17.00	952.00	**
Cottam.....		25	100 watt <i>m</i>	15.00	379.00	**
Courtright.....	417	43	100 watt <i>m</i>	20.00	860.00	2.06
Creemore.....	605	58	100 watt <i>m</i>	10.00	580.00	0.96
Dashwood.....		41	100 watt <i>m</i>	13.00	536.49	**
Delaware.....		19	100 watt <i>m</i>	12.00	228.00	**
Dorchester.....		47	100 watt <i>m</i>	11.00	507.36	**

**Population not shown in Government statistics.

*s*Series system.*m*Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1929, showing
Cost per Lamp, Cost per Year, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
Drayton.....	574	* 70	100 watt <i>m</i>	\$ c. 12.00	\$ c. 840.00	1.46
Dresden.....	1,424	{ 128 15	100 c.p. <i>s</i> 50 watt <i>m</i>	14.00 4.36	1,842.30	1.29
Drumbo.....		38	100 watt <i>m</i>	13.00	494.00	**
Dublin.....		47	100 watt <i>m</i>	15.00	705.00	**
Dundalk.....	560	93	100 watt <i>m</i>	10.00	930.00	1.66
Dundas.....	5,009	{ 316 15 7	100 watt <i>m</i> 200 watt <i>m</i> 500 watt <i>m</i>	11.00 16.00 36.00	3,968.00	0.79
Dunnville.....	3,386	{ 249 27	100 c.p. <i>s</i> 600 c.p. <i>s</i>	12.00 50.00	4,249.08	1.25
Durham.....	1,720	110	150 c.p. <i>s</i>	16.00	1,760.00	1.02
Dutton.....	802	105	100 watt <i>m</i>	9.00	945.00	1.18
East Windsor....	13,531	{ 296 121 192	100 watt <i>m</i> 200 watt <i>m</i> 300 watt <i>m</i>	8.00 14.00 20.00	7,592.84	††
Elmira.....	2,692	{ 190 8	100 watt <i>m</i> 200 watt <i>m</i>	9.00 12.00	1,806.00	0.67
Elmvale.....		59	100 watt <i>m</i>	11.00	658.80	**
Elmwood.....		23	150 watt <i>m</i>	21.00	483.00	**
Elora.....	1,216	101	100 watt <i>m</i>	16.00	1,616.00	1.33
Embro.....	431	54	100 watt <i>m</i>	13.00	702.00	1.63
Erieau.....	201	21	100 watt <i>m</i>	20.00	420.00	2.09
Essex.....	1,821	{ 106 29 6	60 watt <i>m</i> 100 watt <i>m</i> 200 watt <i>m</i>	11.00 13.00 22.00	1,654.52	0.91
Etobicoke Twp...		1,118	100 watt <i>m</i>	13.00	13,975.11	**
Exeter.....	1,583	{ 165 23	100 watt <i>m</i> 200 watt <i>m</i>	9.00 18.00	1,901.97	1.20
Fergus.....	2,080	{ 126 30	100 watt <i>m</i> 150 watt <i>m</i>	16.00 18.50	2,571.00	1.24
Finch.....	344	31	100 watt <i>m</i>	25.00	775.00	2.25
Flesherton.....	442	{ 52 1	100 watt <i>m</i> 300 watt <i>m</i>	10.00 30.00	519.02	1.17

**Population not shown in Government statistics. *s*Series system. *m*Multiple system.
††Part of cost paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1929, showing Cost per Lamp, Cost per Year, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
Fonthill.....	727	69	100 watt <i>m</i>	\$ c. 14.00	\$ c. 904.78	\$ c. 1.24
Forest.....	1,415	{ 123 131	100 watt <i>m</i> 60 watt <i>m</i>	{ 11.00 7.00 }	2,321.00	1.64
Fort William....	23,544	{ 187 58 487 4 67	1,000 c.p. <i>s</i> 600 c.p. <i>s</i> 100 watt <i>m</i> 100 watt <i>m</i> Arcs	{ 45.00 30.00 8.50 9.60 45.00 }	18,075.44	0.77
Galt.....	12,977	{ 977 316 152 74	100 c.p. <i>s</i> 100 watt <i>m</i> 300 watt <i>m</i> 500 watt <i>m</i>	{ 9.00 12.00 35.00 40.00 }	20,913.01	1.61
Georgetown.....	1,973	{ 170 1 17	100 watt <i>m</i> 300 watt <i>m</i> 100 watt <i>m</i>	{ 11.00 19.00 13.00 }	2,110.00	†
Glencoe.....	793	{ 101 29	100 watt <i>m</i> 200 watt <i>m</i>	{ 14.00 20.00 }	1,994.00	2.51
Goderich.....	4,264	{ 317 8 8 16 3	100 c.p. <i>s</i> 100 watt <i>m</i> 200 watt <i>m</i> 3-Lt. stds. <i>m</i> Park lts.	{ 9.00 15.00 25.00 35.00 9.00 }	3,746.50	0.88
Grand Valley....	546	52	100 watt <i>m</i>	16.00	832.00	1.53
Granton.....		36	100 watt <i>m</i>	10.00	360.00	**
Gravenhurst....	1,846	{ 16 20 134 2	300 watt <i>m</i> 100 watt <i>m</i> 100 c.p. <i>s</i> 150 c.p. <i>s</i>	{ 35.00 10.00 10.00 11.00 }	1,708.66	0.93
Guelph.....	19,202	{ 32 18 1407 32 4 6 52 39	500 watt <i>m</i> 60 watt <i>m</i> 100 watt <i>m</i> 200 watt <i>m</i> 300 watt <i>m</i> 500 watt <i>m</i> 1,000 watt <i>m</i> 750 watt <i>m</i>	{ 34.00 4.00 10.00 12.50 18.75 25.00 46.50 43.00 }	20,057.76	1.04
Hagersville.....	1,290	100	100 watt <i>m</i>	12.00	1,200.00	0.93
Hamilton.....	127,447	{ 8186 1411 11 378 66 82	100 watt <i>m</i> 200 watt <i>m</i> 300 watt <i>m</i> 500 watt <i>m</i> 750 watt <i>m</i> 500 watt <i>m</i>	{ 7.50 11.00 18.00 37.00 55.00 32.00 }	94,292.91	0.74

**Population not shown in Government statistics.

*s*Series system.*m*Multiple system.

†Includes Glen Williams.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1929, showing
Cost per Lamp, Cost per Year, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
				\$ c.	\$ c.	\$ c.
Hanover.....	2,785	{ 16 91 12 4	{ 250 c.p. s 100 c.p. s 200 watt m 100 watt m	{ 32.00 27.00 32.00 27.00	3,461.16	1.24
Harriston.....	1,145	{ 89 17	{ 150 c.p. s 100 watt m	{ 11.00 11.00	1,193.40	1.04
Harrow.....		59	100 watt m	12.00	708.00	**
Havelock.....	1,134	{ 63 16	{ 100 c.p. s 250 c.p. s	{ 18.00 27.00	1,566.00	1.38
Hensall.....	748	76	100 watt m	12.00	912.00	1.22
Hespeler.....	2,748	{ 110 14 38 7 30	{ 150 c.p. s 400 c.p. s 250 c.p. s 300 watt m 150 watt m	{ 10.00 20.00 16.00 35.00 10.00	2,533.00	0.92
Highgate.....	359	50	100 watt m	11.00	550.03	1.53
Holstein.....		14	100 watt m	35.00	490.00	**
Humberstone....	1,766	108	100 watt m	12.00	1,274.00	0.72
Huntsville.....	2,670	{ 39 15 20 37 58	{ 100 c.p. s 400 c.p. s 150 c.p. s 50 watt m 75 watt m	{ 14.00 36.00 14.00 10.00 10.00	2,316.00	0.87
Ingersoll.....	5,150	{ 13 320 2 2 26	{ 100 w. pks. m 100 c.p. s 600 c.p. s 1,000 c.p. s 1,000 c.p. s	{ 5.50 11.00 28.00 25.00 35.00	4,607.50	0.89
Jarvis.....	460	56	100 watt m	12.00	672.00	1.46
Kemptville.....	1,269	89	100 watt m	20.50	1,824.50	1.44
Kincardine.....	2,131	{ 121 13 19 15	{ 150 c.p. s 400 c.p. s 100 watt m 200 watt m	{ 22.00 27.00 16.00 27.00	3,679.74	1.73
Kingston.....	21,365	{ 82 433 61	{ 100 c.p. s 600 c.p. s 1,000 c.p. s	{	20,000.00	0.94
Kingsville.....	2,427	{ 138 100	{ 250 c.p. s 60 watt m	{ 18.00 12.00	3,619.50	††
Kirkfield.....		23	100 watt m	20.00	460.00	**

**Population not shown in Government statistics. sSeries system. mMultiple system.

††Part of cost paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1929, showing
Cost per Lamp, Cost per Year, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps		Cost per lamp per annum	Total cost per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
Kitchener.....	26,709	43	16 c.p.	s	7.00	29,951.26	1.12
		1980	80 c.p.	s	8.00		
		59	100 c.p.	s	8.00		
		349	200 watt	m	15.00		
		22	250 c.p.	m	13.00		
		65	300 watt	m	17.50		
		27	300 watt	m	15.00		
		78	300 watt	m	20.00		
		166	500 watt	m	25.00		
		18	1,000 c.p.	m	25.00		
Lakefield.....	1,469	104	100 watt	m	18.00	1,827.00	1.24
Lambeth.....		32	100 watt	m	12.00	407.50	**
		1	500 watt	m	47.00		
Lanark.....	579	37	100 watt	m	18.00	672.17	1.16
Lancaster.....	560	41	100 watt	m	36.50	1,495.50	2.67
La Salle.....	623	66	100 watt	m	17.00	1,110.66	1.78
Leamington.....	5,072	157	100 watt	m	13.00	7,155.06	††
		20	200 watt	m	17.00		
		141	400 c.p.	s	26.00		
		38	600 c.p.	s	31.00		
Lindsay.....	7,231	408	100 c.p.	s	15.00	7,796.29	1.08
		27	1,000 c.p.	s	70.00		
Listowel.....	2,346	141	60 watt	m	9.00	3,511.11	1.50
		114	100 watt	m	11.00		
		7	200 watt	m	25.00		
		24	300 watt	m	30.00		
		3	500 watt	m	35.00		
London.....	66,132	32	600 c.p.	s	28.00	43,751.14	0.66
		131	400 c.p.	s	18.00		
		226	600 c.p.	s	30.00		
		2184	150 c.p.	s	11.00		
		227	400 c.p.	s	24.00		
		98	500 watt	m	40.00		
		21	300 watt	m	20.00		
		46	300 watt	m	14.00		
		146	100 watt	m	18.00		
		4	150 c.p.	s	10.00		
		18	400 watt	m	20.00		
London Twp.....		52	100 watt	m	12.00	640.50	**
		1	200 watt	m	16.50		
Lucan.....	573	69	100 watt	m	15.00	1,032.20	1.80
Lucknow.....	1,062	55	100 watt	m	22.00	1,722.00	1.62
		16	200 watt	m	32.00		
Lynden.....		39	100 watt	m	10.00	390.56	**

**Population not shown in Government statistics. sSeries system.

mMultiple system.

††Part of cost paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1929, showing
Cost per Lamp, Cost per Year, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps		Cost per lamp per annum	Total cost per annum	Cost per capita
Markdale.....	797	84	150 c.p.	<i>s</i>	\$ c. 8.00	\$ c. 672.00	\$ c. 0.84
Markham.....	956	{ 20 80	60 watt 100 watt	<i>m</i> <i>m</i>	11.00 14.00	1,340.00	1.40
Marmora.....	853	87	100 watt	<i>m</i>	18.00	1,566.00	1.84
Martintown.....		15	100 watt	<i>m</i>	20.00	300.00	**
Maxville.....	774	63	150 c.p.	<i>s</i>	35.00	2,196.25	2.84
Meaford.....	2,747	{ 160 35 18	150 c.p. 200 watt 100 watt	<i>s</i> <i>m</i> <i>m</i>	13.00 22.00 13.00	3,001.30	1.09
Merlin.....		43	100 watt	<i>m</i>	16.00	688.00	**
Merritton.....	2,556	304	100 watt	<i>m</i>	9.00	2,736.00	1.07
Midland.....	7,820	{ 372 30 36	150 c.p. 300 watt 500 watt	<i>s</i> <i>m</i> <i>m</i>	10.00 22.00 40.00	5,997.92	0.77
Milton.....	1,875	209	100 watt	<i>m</i>	9.00	1,924.50	1.03
Milverton.....	1,025	{ 94 12	100 watt 200 watt	<i>m</i> <i>m</i>	9.00 12.00	990.50	0.97
Mimico.....	5,876	{ 214 163 46	100 watt 200 watt 300 watt	<i>m</i> <i>m</i> <i>m</i>	15.00 23.00 30.00	8,303.12	1.41
Mitchell.....	1,574	220	100 c.p.	<i>s</i>	9.00	1,980.00	1.26
Moorefield.....		25	100 watt	<i>m</i>	15.00	375.00	**
Mount Brydges.....		44	100 watt	<i>m</i>	11.00	484.00	**
Mount Forest....	1,911	{ 135 39 16	150 c.p. 250 c.p. 100 watt	<i>s</i> <i>s</i> <i>m</i>	12.00 14.00 12.00	2,354.00	1.23
Neustadt.....	408	39	150 c.p.	<i>s</i>	25.00	975.00	2.39
Newbury.....	288	46	100 watt	<i>m</i>	15.00	690.00	2.40
New Hamburg....	1,446	{ 205 42	100 watt 200 watt	<i>m</i> <i>m</i>	9.00 9.00	2,223.00	1.54
New Toronto....	5,327	{ 76 17 56 73 9 19 39 126	75 watt 100 watt 75 watt 75 watt 100 watt 200 watt 200 watt 500 watt	<i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	16.50 19.50 17.50 18.00 18.50 22.50 23.00 34.50	9,631.82	1.81

**Population not shown in Government statistics.

*s*Series system.

*m*Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1929, showing
Cost per Lamp, Cost per Year, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps		Cost per lamp per annum	Total cost per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
Niagara Falls....	19,013	2	100 watt	<i>m</i>	12.00	31,184.71	1.64
		792	100 c.p.	<i>s</i>	12.00		
		54	600 c.p.	<i>s</i>	57.00		
		161	600 c.p.	<i>s</i>	57.00		
		196	1,000 c.p.	<i>s</i>	57.00		
		10	250 c.p.	<i>s</i>	13.00		
		4	600 c.p.	<i>s</i>	60.00		
Niagara-on-the-Lake.....	1,605	202	100 watt	<i>m</i>	11.00	2,590.34	1.61
		22	200 watt	<i>m</i>	18.00		
Nipigon.....		37	100 watt	<i>m</i>	25.00	775.00	**
Norwich.....	1,279	111	100 watt	<i>m</i>	10.00	2,015.00	1.58
		28	400 watt	<i>m</i>	35.00		
Norwood.....	752	78	100 c.p.	<i>s</i>	18.00	1,551.00	2.06
		6	100 c.p.	<i>s</i>	20.00		
		1	100 c.p.	<i>s</i>	27.00		
Oil Springs.....	417	41	100 watt	<i>m</i>	18.00	738.00	1.77
Omemee.....	511	46	100 c.p.	<i>s</i>	14.00	916.43	1.79
		10	250 c.p.	<i>s</i>	28.00		
Orangeville.....	2,679	59	400 c.p.	<i>s</i>	25.00	3,217.00	1.20
		94	150 c.p.	<i>s</i>	19.00		
Ottawa.....	120,799	59	Arcs.		45.00	49,669.01	0.41
		384	100 c.p.	<i>s</i>	7.00		
		734	400 c.p.	<i>s</i>	25.00		
		757	600 c.p.	<i>s</i>	35.00		
		505	100 watt	<i>m</i>	6.00		
		2900	100 watt	<i>m</i>	48c per ft.)	18,776.26	†
Otterville.....		31	100 watt	<i>m</i>	12.00	372.00	**
Owen Sound.....	12,368	2	200 c.p.	<i>s</i>	14.00	9,875.00	0.80
		403	100 c.p.	<i>s</i>	11.00		
		9	150 c.p.	<i>s</i>	11.50		
		232	250 c.p.	<i>s</i>	14.00		
		3	300 c.p.	<i>s</i>	15.00		
		12	400 c.p.	<i>s</i>	21.00		
Paisley.....	730	39	500 c.p.	<i>s</i>	35.00	1,408.00	1.93
		88	100 watt	<i>m</i>	16.00		
Palmerston.....	1,650	98	80 c.p.	<i>s</i>	9.00	1,214.52	0.74
		8	100 c.p.	<i>s</i>	10.00		
		8	250 c.p.	<i>s</i>	25.00		
		10	60 watt	<i>m</i>	9.00		
		1	40 watt	<i>m</i>	9.00		
		14	200 watt	<i>m</i>	25.00		
		1	300 watt	<i>m</i>	25.00		
		2	100 watt	<i>m</i>	10.00		
		1	500 watt	<i>m</i>	35.00		

**Population not shown in Government statistics. *s*Series system. *m*Multiple system

†Collected as local improvement on frontage basis and not included in average cost.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1929, showing
Cost per Lamp, Cost per Year, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
				\$ c.	\$ c.	\$ c.
Paris.....	4,063	{ 448 13 25	100 c.p. s 400 c.p. s 500 watt m	9.00 35.00 45.00	5,612.00	1.38
Parkhill.....	959	{ 77 15	100 watt m 200 watt m	14.00 23.00	1,423.00	1.48
Penetanguishene..	3,985	188	150 c.p. s	10.00	1,875.00	0.47
Perth.....	3,712	{ 66 14 4 16	100 c.p. s 200 c.p. s 400 c.p. s 600 c.p. s	15.00 25.00 28.00 40.00	2,080.96	0.56
Peterborough....	21,768	{ 319 373 404 1 115	60 watt m 100 watt m 300 watt m 500 watt m 400 c.p. s	9.00 10.00 18.00 34.00 43.00	18,662.06	0.86
Petrolia.....	2,516	{ 145 24	150 c.p. s 600 c.p. s	11.00 38.00	2,533.92	1.01
Picton.....	3,266	{ 215 85	100 c.p. s 250 c.p. s	10.00 17.00	3,581.72	1.10
Plattsville.....		34	100 watt m	16.00	544.00	**
Point Edward....	1,371	77	150 c.p. s	12.00	822.00	0.60
Port Arthur.....	18,305	{ 2312 151 158	100 watt m 300 watt m 500 watt m	5.00 10.00 15.00	15,439.92	0.84
Port Colborne....	5,203	{ 26 228 124	100 watt m 100 watt m 200 watt m	14.00 13.00 17.00	5,521.98	1.06
Port Credit.....	1,381	{ 130 93	100 watt m 200 watt m	10.00 16.00	2,788.00	2.02
Port Dalhousie...	1,580	127	100 watt m	14.00	1,572.67	0.99
Port Dover.....	1,572	{ 172 19	100 watt m 300 watt m	15.00 35.00	2,799.26	1.78
Port McNicoll...	879	46	100 watt m	11.00	506.00	0.58
Port Perry.....	1,150	99	100 watt m	14.00	1,402.89	1.22
Port Rowan.....	669	53	100 watt m	22.00	1,118.35	1.67
Port Stanley.....	618	174	100 watt m	11.00	1,908.16	†
Prescott.....	2,724	{ 164 105	100 watt m 2-Lt. brckts. m	10.00 17.00	3,425.00	1.26

**Population not shown in Government statistics. sSeries system. mMultiple system.
†Summer population not in statistics.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1929, showing
Cost per Lamp, Cost per Year, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
				\$ c.	\$ c.	\$ c.
Preston.....	5,697	{ 224 118 40 9 6	{ 150 c.p. <i>s</i> 100 watt <i>m</i> 500 watt <i>m</i> 300 watt <i>m</i> 5-Lt. stds. <i>m</i>	{ 10.00 10.00 30.00 18.00 30.00	4,880.28	0.86
Priceville.....		14	100 watt <i>m</i>	40.00	560.00	**
Princeton.....		24	100 watt <i>m</i>	14.00	336.00	**
Queenston.....		34	100 watt <i>m</i>	16.00	543.96	**
Richmond.....	365	24	100 watt <i>m</i>	31.50	756.00	2.07
Richmond Hill...	1,170	{ 6 17 98	{ 200 watt <i>m</i> 100 watt <i>m</i> 75 watt <i>m</i>	{ 16.00 12.00 11.00	1,379.00	1.18
Ridgetown.....	1,986	{ 1 193 18	{ 1,000 c.p. <i>s</i> 100 c.p. <i>s</i> 500 watt <i>m</i>	{ 40.00 11.00 40.00	2,770.00	1.39
Ripley.....	449	{ 44 5	{ 100 watt <i>m</i> 200 watt <i>m</i>	{ 26.00 41.00	1,330.25	2.96
Riverside.....	4,383	{ 74 78 204	{ 200 watt <i>m</i> 150 watt <i>m</i> 100 watt <i>m</i>	{ 18.00 14.50 11.00	4,458.34	††
Rockwood.....		83	100 watt <i>m</i>	9.00	760.84	**
Rodney.....	712	{ 69 14	{ 100 watt <i>m</i> 200 watt <i>m</i>	{ 10.00 18.00	942.00	1.32
Russell.....		46	100 watt <i>m</i>	22.00	1,012.00	**
St. Catharines...	23,327	3094	100 watt <i>m</i>	7.50	23,540.35	1.01
St. George.....		37	100 watt <i>m</i>	8.00	296.00	**
St. Jacobs.....		43	100 watt <i>m</i>	10.00	430.00	**
St. Marys.....	4,023	{ 232 136	{ 100 c.p. <i>s</i> 250 c.p. <i>s</i>	{ 8.00 12.00	3,448.00	0.86
St. Thomas.....	16,743	{ 1065 28 114	{ 100 c.p. <i>s</i> 250 c.p. <i>s</i> 600 c.p. <i>s</i>	{ 9.00 13.00 34.00	13,827.21	0.83
Sandwich.....	10,258	{ 214 286 90 10 28	{ 100 c.p. <i>s</i> 100 c.p. <i>s</i> 400 c.p. <i>s</i> 100 watt <i>m</i> 400 c.p. <i>s</i>	{ 12.00 13.00 26.00 13.00 28.00	9,195.76	††

**Population not shown in Government statistics. *s*Series system. *m*Multiple system.

††Part of cost paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1929, showing
Cost per Lamp, Cost per Year, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
Sarnia	16,544	{ 875 82 17	{ 150 c.p. 1,000 c.p. 500 c.p.	{ \$ c. 12.00 43.00 34.00	\$ c. 13,959.76	\$ c. ††
Scarboro Twp		{ 252 613 2 2 4	{ 300 watt 100 watt Subway 100 watt 100 watt	{ m m m m m 27.50 15.00 19.00 18.00 17.00	15,732.29	**
Seaforth	1,670	{ 60 58 20	{ 80 c.p. 100 c.p. 300 watt	{ s s m 9.00 10.00 20.00	1,520.00	0.91
Shelburne	1,120	95	150 c.p.	s 11.00	1,052.88	0.94
Simcoe	4,581	{ 274 27 11 2	{ 100 c.p. 1,000 c.p. 150 watt 500 watt	{ s s m m 9.00 40.00 9.00 53.00	3,890.74	0.85
Smiths Falls	7,105	{ 18 178 163	{ 60 watt 100 watt 300 watt Beacon light	{ m m m 8.50 17.00 21.00 200.00	6,713.36	0.94
Springfield	397	50	100 watt	m 12.00	600.00	1.51
Stamford Twp		658	100 watt	m 10.00	6,154.97	**
Stayner	967	{ 76 18	{ 150 c.p. 200 watt	{ s m 12.00 16.00	1,200.00	1.24
Stouffville	1,071	102	100 watt	m 14.00	1,443.17	1.35
Stratford	18,208	{ 861 64 166 12	{ 150 c.p. 1,000 c.p. 1,000 c.p. 1,000 c.p.	{ s s s s 10.50 25.00 30.00 35.00	15,944.79	0.88
Strathroy	2,702	{ 326 34	{ 100 c.p. 250 c.p.	{ s s 9.00 15.00	3,422.25	1.27
Sunderland		32	100 watt	m 18.00	567.00	**
Sutton	825	{ 108 23	{ 100 watt 200 watt	{ m m 15.00 19.00	2,033.00	2.46
Tara	453	67	100 watt	m 25.00	1,675.00	3.70
Tavistock	965	{ 76 35	{ 100 watt 200 watt	{ m m 10.00 12.00	1,181.28	1.22
Tecumseh	2,164	{ 17 61	{ 400 c.p. 100 watt	{ s m 21.00 12.00	1,087.00	††

**Population not shown in Government statistics. sSeries system.

mMultiple system.

††Part of cost paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1929, showing
Cost per Lamp, Cost per Year, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
				\$ c.	\$ c.	\$ c.
Teeswater.....	813	{ 20 36	400 c.p. <i>s</i> 150 c.p. <i>s</i>	45.00 28.00	1,908.00	2.35
Thamesford.....		46	100 watt <i>m</i>	11.00	506.00	**
Thamesville.....	845	{ 61 27 7	100 watt <i>m</i> 200 watt <i>m</i> 200 watt <i>m</i>	9.00 14.00 18.00	1,059.00	1.25
Thedford.....	569	69	100 watt <i>m</i>	15.00	1,035.00	1.82
Thorndale.....		31	100 watt <i>m</i>	12.00	372.06	**
Thornton.....		21	100 watt <i>m</i>	40.00	840.00	**
Thorold.....	4,935	{ 357 40 28	60 watt <i>m</i> 100 watt <i>m</i> 200 watt <i>m</i>	8.00 9.00 12.00	3,552.00	0.72
Tilbury.....	1,992	{ 96 25	100 watt <i>m</i> 200 watt <i>m</i>	11.00 19.50	1,542.19	0.77
Tillsonburg.....	3,257	{ 255 48 2	100 c.p. <i>s</i> 250 c.p. <i>s</i> 1,000 c.p. <i>s</i>	8.00 13.00 45.00	2,741.96	0.84
Toronto.....	569,899	{ 6 6 45094 107 1984 88 1358 99 5 371	50 watt <i>m</i> 60 watt <i>m</i> 100 watt <i>m</i> 150 watt <i>m</i> 200 watt <i>m</i> 250 watt <i>m</i> 300 watt <i>m</i> 500 watt <i>m</i> 1,000 watt <i>m</i> 5-Lt. stds., 100 watt <i>m</i> 500 watt <i>m</i> 1-Lt. stds., 300 watt <i>m</i> 1-Lt. stds., 500 watt <i>m</i> 1-Lt. stds., 500 watt <i>m</i> 500 watt <i>m</i>	6.56 4.80 8.00-9.20 12.00-15.00 18.00-23.00 20.00-24.50 28.00 45.00 90.00 47.50 52.50 50.00 47.50 52.50	489,833.63	0.86
		{ 24 395 68 24	1-Lt. stds., 500 watt <i>m</i> 1-Lt. stds., 300 watt <i>m</i> 1-Lt. stds., 500 watt <i>m</i> 1-Lt. stds., 500 watt <i>m</i> 500 watt <i>m</i>	47.50 52.50 50.00 47.50 52.50		
		{ 378 1	100 watt <i>m</i> 300 watt <i>m</i>	12.00 43.20		
Toronto Twp.....					4,501.72	**
Tottenham.....	535	49	150 c.p. <i>s</i>	25.00	1,225.08	2.29
Uxbridge.....	1,417	129	100 watt <i>m</i>	12.00	1,548.00	1.09
Victoria Harbor..	1,382	76	100 watt <i>m</i>	9.00	684.00	0.49

**Population not shown in Government statistics.

*s*Series system.

*m*Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1929, showing
Cost per Lamp, Cost per Year, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps	Cost per lamp per annum	Total cost per annum	Cost per capita
				\$ c.	\$ c.	\$ c.
Walkerville.....	10,208	{ 159 56 258 550 102	{ 300 watt <i>m</i> 600 c.p. <i>s</i> 100 watt <i>m</i> 150 watt <i>m</i> 200 watt <i>m</i>	{ 18.00 45.00 8.00 11.00 13.00	14,216.18	††
Wallaceburg.....	4,234	{ 185 30 3	{ 150 c.p. <i>s</i> 600 c.p. <i>s</i> 1,000 c.p. <i>s</i>	{ 12.00 25.00 38.00	2,967.00	0.70
Wardsville.....	224	34	75 watt <i>m</i>	20.00	680.00	3.04
Warkworth.....		{ 24 6	{ 100 watt <i>m</i> 200 watt <i>m</i>	{ 20.00 35.00	692.14	**
Waterdown.....	871	{ 75 6	{ 100 watt <i>m</i> 200 watt <i>m</i>	{ 11.00 17.50	930.00	1.07
Waterford.....	1,070	174	100 watt <i>m</i>	9.00	1,614.60	1.51
Waterloo.....	7,459	{ 331 125 44 10 12 66 6 3	{ 100 c.p. <i>s</i> 150 c.p. <i>s</i> 5-Lt. stds. <i>m</i> 3-Lt. stds. <i>m</i> 200 watt <i>m</i> 150 watt <i>m</i> 1-Lt. stds. <i>m</i> 1-Lt. stds. <i>m</i>	{ 8.00 10.00 36.00 25.00 12.00 10.00 35.00 30.00	6,769.17	0.91
Watford.....	1,030	{ 89 11	{ 100 watt <i>m</i> 200 watt <i>m</i>	{ 11.50 20.00	1,236.18	1.20
Waubashene.....		41	100 watt <i>m</i>	9.00	369.00	**
Welland.....	10,085	{ 177 12 407 62 6	{ 600 c.p. <i>s</i> 300 watt <i>m</i> 100 watt <i>m</i> 200 watt <i>m</i> 500 watt <i>m</i>	{ 30.00 30.00 11.00 18.00 28.00	10,821.78	1.07
Wellesley.....		60	100 watt <i>m</i>	12.00	720.00	**
Wellington.....	832	68	100 c.p. <i>s</i>	13.00	883.98	1.06
West Lorne.....	795	{ 87 12	{ 100 watt <i>m</i> 200 watt <i>m</i>	{ 10.00 18.00	1,010.04	1.27
Weston.....	4,190	{ 109 428 5 2 2 20 2	{ 600 c.p. <i>s</i> 100 c.p. <i>s</i> 5-Lt. stds. <i>m</i> 100 watt <i>m</i> 25 watt <i>m</i> 300 watt <i>m</i> Signs	{ 30.00 7.50 21.00 7.50 2.50 11.00 110.00	7,447.17	1.78

**Population not shown in Government statistics. *s*Series system. *m*Multiple system.

††Part of cost paid direct in form of debenture charges.

STATEMENT "C"—Concluded

Street Lighting Installation in Hydro Municipalities, December 31, 1929, showing
Cost per Lamp, Cost per Year, and Cost per Capita

Municipality	Population	Number of lamps	Size and style of lamps		Cost per lamp per annum	Total cost per annum	Cost per capita
					\$ c.	\$ c.	\$ c
Wheatley.....	738	{ 70 39	100 watt 300 watt	<i>m</i> <i>m</i>	13.00 26.00	1,924.00	2.61
Whitby.....	5,195	{ 121 136 112 3	100 c.p. 80 c.p. 100 watt 500 watt	<i>s</i> <i>s</i> <i>m</i> <i>m</i>	10.00 9.00 7.50 11.50	3,301.12	0.64
Williamsburg.....		18	100 watt	<i>m</i>	13.00	234.00	**
Winchester.....	992	117	100 watt	<i>m</i>	9.00	1,053.00	1.06
Windsor.....	66,893	{ 2140 721 887 650 66	100 c.p. 100 c.p. 400 c.p. 600 c.p. 1,000 c.p.	<i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i>	11.00 12.00 24.00 43.00 46.00	79,969.06	††
Wingham.....	2,266	{ 22 99 27	400 c.p. 150 c.p. 200 watt	<i>s</i> <i>s</i> <i>m</i>	33.00 20.00 33.00	3,534.00	1.56
Woodbridge.....	717	81	100 watt	<i>m</i>	10.00	810.00	1.13
Woodstock.....	10,195	{ 539 14 172 107 9	100 c.p. 250 c.p. 60 watt 75 watt 300 watt	<i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i>	8.00 20.00 8.00 8.00 32.00	6,939.38	0.68
Woodville.....	407	{ 30 6	100 watt 200 watt	<i>m</i> <i>m</i>	12.00 20.00	486.00	1.19
Wyoming.....	490	50	100 watt	<i>m</i>	15.00	750.00	1.53
York East Twp.....		{ 854 1 159 8 5 14	100 watt 500 watt 300 watt 300 watt 300 watt 300 watt	<i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	15.00 29.00 28.00 32.00 22.00 21.00	16,648.36	**
York North Twp.....		{ 81 19 65 12 34	100 watt 100 watt 200 watt 100 watt 150 watt	<i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	12.00 13.00 23.00 15.00 32.00	4,504.27	**
Zurich.....		63	100 watt	<i>m</i>	11.00	682.88	**

**Population not shown in Government statistics. *s*Series system. *m*Multiple system.

††Part of cost paid direct in form of debenture charges.

STATEMENT "D"

(pages 360 to 377)

Statistics Relating to the Supply of Electrical Energy to Consumers
by Individual Ontario Municipalities Served by the
Hydro-Electric Power Commission
for the year 1929.

STATEMENT "E"

(pages 378 to 393)

Cost of Power to Municipalities and Rates to Consumers for
Domestic Service—Commercial Light Service—Power
Service in Ontario Municipalities Served by the
Hydro-Electric Power Commission
for the year 1929.

STATEMENT "D"

Statistics Relating to the Supply of Electrical Energy to Consumers in Ontario Municipalities Served by The Hydro-Electric Power Commission

The following tabulation of various statistical data relating to the supply of electrical energy to consumers by individual municipalities receiving power at cost from the Commission sets forth, regarding the results of operation from the standpoint of the consumers, much useful and interesting information.

The policy and practice of the Commission has been, and is, to make as widespread and beneficial a distribution of electrical energy as possible, and to extend to every community that can economically be reached by transmission lines, the benefit of electrical service. Even where, in certain localities, by reason of the distance from a source of supply or of the smallness of the quantity of power required by the municipality, the cost per horsepower to the municipality—and, consequently, the cost of service to the consumer—must unavoidably be higher than in more favourably situated communities, service has not been withheld when the consumers were able and willing to pay the cost.

The accompanying diagram summarizes graphically certain data of Statement "D," respecting the average cost to the consumer per kilowatt-hour in the cases of domestic service and commercial light service and per horsepower in the case of power service. It will be observed that the total amount of the energy sold in municipalities where circumstances necessitate rates which result in the higher average costs to the consumer is relatively insignificant. With respect to power service, it should be noted that the statistics of Statement "D," and of the diagram, cover mainly retail power service supplied to the smaller industrial consumers. The average amount of power taken by the industrial consumers served by the municipalities is about 40 horsepower. The Commission serves certain large power consumers direct on behalf of the various systems of municipalities.

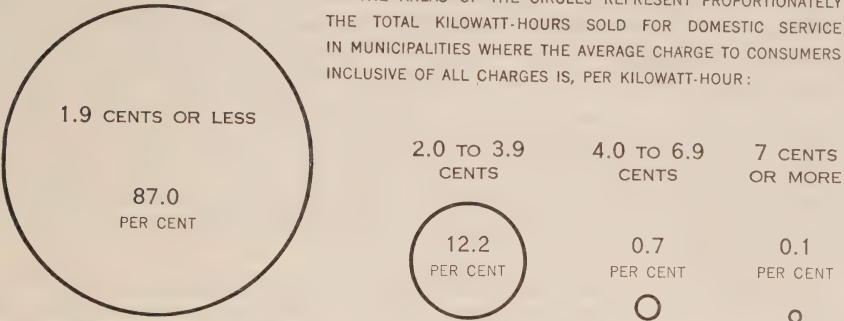
It should be kept in mind that the revenues reported in Statement "D," and used for purposes of calculating the net cost to the consumer per kilowatt-hour or per horsepower, are the total revenues contributed by the consumers, and include, in addition to the cost of power, sums specifically applicable to the retirement of capital, and also operating surplus which is in part applied to retirement of capital or extension of plant and is in part returned in cash to the consumers.

It should specially be noted that the average cost per kilowatt-hour or per horsepower if employed indiscriminately as a criterion by means of which to compare the rates or prices for electrical service in various municipalities, will give very misleading results. The average costs per kilowatt-hour and per horsepower, as given in Statement "D" for the respective classes of service in each municipality, are simply the statistical results obtained by dividing the respective revenues by the aggregate kilowatt-hours or horsepower sold. As such, the data reflect the combined influence of a number of factors, of which the rates or prices to consumers are but one factor. Owing to the varying influence of factors other than the rates, it is seldom found that in any two municipalities the average cost per kilowatt-hour or per horsepower to the consumers, even of the same classification, is in proportion to the respective rates for service. Instances even occur where the average costs to the consumers per kilowatt-hour or per horsepower are substantially lower in one municipality than in another, though the rates are higher.

COST OF ELECTRICAL SERVICE
IN MUNICIPALITIES SERVED BY THE
HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

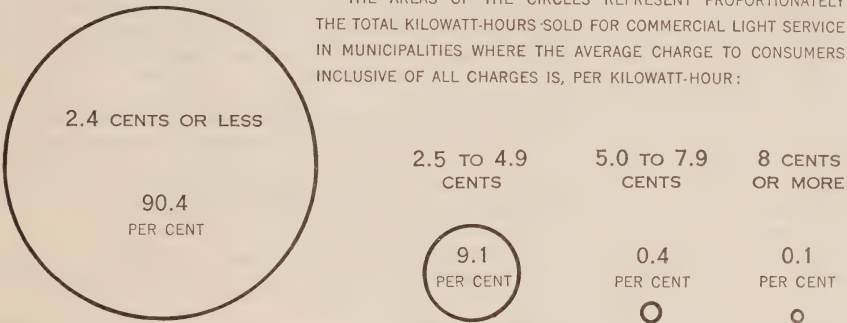
DOMESTIC SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR DOMESTIC SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



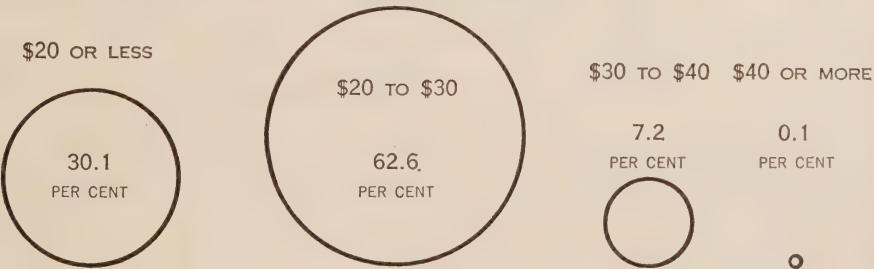
COMMERCIAL LIGHT SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR COMMERCIAL LIGHT SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



POWER SERVICE SUPPLIED BY MUNICIPALITIES

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE AGGREGATE HORSEPOWER SOLD FOR POWER SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS PER HORSEPOWER PER YEAR:



With respect to domestic service, for example, instances will be observed where two municipalities have identical prices or rates for domestic service, but the average cost per kilowatt-hour to the consumer varies by as much as 100 per cent. Such variations are principally due to differences in the extent of utilization of the service for the operation of electric ranges, water heaters and other appliances, an indication of which is afforded by the statistics of average monthly consumption.

Similarly, in the case of power service, the average cost per horsepower cannot be taken as a conclusive indication of the rates for service. The quantity of power taken by a consumer, as measured in horsepower, is, in the case of hydro-electric power supplied to industries at cost, the most important factor affecting costs and revenues, but it is not the only one. The number of hours the power is used in the month or year—which, in conjunction with the power, determines the quantity of energy consumed, as measured in kilowatt-hours—also affects the costs and revenues. Consequently, in two municipalities charging the same rates for power service, the average cost per horsepower to the consumer will vary in accordance with the consumers' average number of hours' use of the power per month.*†

*In interpreting the statistics for power service, it should be remembered that a greater average energy consumption per horsepower sold increases the "average cost per horsepower" to the consumer, and in this respect the "average cost per horsepower" is analogous to the "average monthly bill" in the case of domestic and commercial services rather than to the "net cost per kilowatt-hour." It will be observed that, in the case of domestic service, in two municipalities with the same rates, or in one municipality in different years when no change of rates has been made, a higher average monthly bill denotes an increased average monthly consumption per consumer and a lower average cost per kilowatt-hour to the consumer. In the same way, in the case of power service, in two municipalities with the same rates, or in one municipality in different years with no change in rates, a higher average cost per horsepower denotes a more continuous use of the power and a lower average cost per kilowatt-hour to the consumer.

†In view of the fact that the data of Statement "D" have been misinterpreted in the making of certain comparisons as to the cost of electricity in various territories, it is desirable to add a word of caution respecting their significance. Essentially, the average cost or revenue per kilowatt-hour is *no criterion of rates* even with similar forms of rate schedules and for the same class of service. Much less is it an indication of rates when revenues and consumptions of all classes of service, and of all kinds of rate schedules, are indiscriminately lumped together in order to deduce a so-called "average cost or rate per kilowatt-hour" for all services.

In one community rates for each class of service, and the cost to every consumer in each class for any given service and consumption, may be substantially higher than in another community, and yet there may be in the former community, a lower "average revenue per kilowatt-hour." This will readily be perceived from a simple arithmetical example.

EXAMPLE.—Assume sales of electrical energy by two electric utilities, A and B, in each case 10,000,000 kilowatt-hours.

Class of service	CASE A			CASE B		
	Higher rates and lower revenues per kilowatt-hour			Lower rates and higher revenues per kilowatt-hour		
	Energy sales kw-hr.	Rate per kw-hr. cents	Revenue \$	Energy sales kw-hr.	Rate per kw-hr. cents	Revenue \$
Residence.....	1,000,000	4	40,000	3,000,000	3	90,000
Power.....	9,000,000	1	90,000	7,000,000	0.75	52,500
Total.....	10,000,000	.....	130,000	10,000,000	.....	142,500
Average revenue	1.3 cents per kw-hr.			1.425 cents per kw-hr.		

It will be observed that in Case A the rates both for residence and for power service are 33 per cent *higher* than in Case B, but the *average revenue* per kilowatt-hour is nearly 9 per cent *less*.

In this instance, the key to the situation lies in the *relative quantities* of energy sold to each class. Service to large power consumers entails a smaller capital investment in distribution lines and equipment and lower operating costs per kilowatt-hour delivered, than does service to domestic and to commercial light consumers, and even where the rates for all classes of service are low, produces a smaller average revenue per kilowatt-hour. Consequently, if one electrical utility as compared with another sells a larger proportion of its energy for power purposes, its "average revenue per kilowatt-hour" may easily be lower than that of the other utility even though its rates for every class of service are substantially higher.

Although the derived statistics of Statement "D" are valueless as a means of comparing the *rates* in one municipality with those in another, they nevertheless fulfil an important function in affording a general measure of the *economy of service* to "Hydro" consumers that has resulted primarily from the low rates themselves, and secondarily from the extensive use of the service that has been made economically possible by the low rates.

Actual bills rendered to typical consumers for similar service under closely comparable circumstances constitute the best basis for effecting comparisons. In researches respecting rates to consumers the actual *rate schedules* of Statement "E" should be employed, and not statistics of average revenues per kilowatt-hour, as these are valueless for rate comparisons—and particularly so when all classifications of service are combined.

In any consideration of the relative economies of electrical service in the various municipalities—whether based on the actual rates for service as set forth in Statement "E," or on the derived statistics resulting from the rates and other factors as presented in Statement "D"—full account should be taken respectively, of the influence upon costs of such factors as the size of the municipality, the distance from the source of power, the features of the power developments from which service is received, the sizes and concentrations of adjacent markets for electricity, and the sizes and character of the loads supplied under the various classifications by the local electrical utility to the ultimate consumers.

In Statement "D" account has been taken of the sizes of municipalities by grouping them according to whether they are (i) cities—over 10,000 population; (ii) towns of 2,000 to 10,000 population; or (iii) small towns (under 2,000 population), villages, and suburban areas in townships (which are comparable in respect of conditions of supply to the smaller towns and villages). The populations and the approximate transmission distances are also given.

A feature of the electrical service in Ontario municipalities is the strikingly large average annual consumption per domestic consumer. There are in all about 160 Ontario municipalities where the average annual consumption per domestic consumer is in excess of 600 kilowatt-hours. Of the 72 cities and towns with populations of 2,000 or more—in which over 85 per cent of the domestic consumers of the undertaking are served—no less than 43 have an average annual consumption per domestic consumer in excess of 1,000 kilowatt-hours; of these, 23 have an average annual consumption per domestic consumer in excess of 1,500 kilowatt-hours, and 8 have an average annual consumption per domestic consumer in excess of 2,000 kilowatt-hours.

The high average consumption for domestic service results essentially from the policy of the undertaking in providing electrical service "at cost"; the rate schedules scientifically designed according to this principle automatically encourage liberal use of the service. Under the standard rate schedules employed by Ontario municipalities, follow-up rates of 1 cent and 1.25 cents (less 10 per cent.) are in common use, and even where the higher initial rates per kilowatt-hour obtain, it is only necessary for the domestic consumer to reach a monthly charge of less than \$2.50 when he obtains the benefit of a follow-up rate of 1.8 cents net. This places the cost of electric cooking within the reach of nearly every domestic consumer.

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers
For Domestic Service, for Commercial Light Service

Group I—CITIES

Municipality	System	Popula- tion	Distance from generating station	Domestic service					
				Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	\$ c.	kw-hr.		kw-hr.	\$ c.	cts.
Brantford.....	Nia.	28,903	79	162,503.25	9,999,374	6,081	137	2.22	1.6
Chatham.....	Nia.	15,509	193	74,180.36	4,326,685	3,789	96	1.65	1.7
East Windsor....	Nia.	13,531	239	87,326.56	5,056,601	2,859	146	2.53	1.7
Fort William....	T.B.	23,544	87	192,889.88	24,754,771	5,518	377	2.94	0.8
Galt.....	Nia.	12,977	92	102,148.22	5,430,994	3,402	133	2.50	1.9
Guelph.....	Nia.	19,202	75	97,870.92	5,603,125	4,881	96	1.68	1.7
Hamilton.....	Nia.	127,447	53	741,403.52	48,877,243	31,135	135	2.05	1.5
Kingston.....	C. O.	21,365	50	99,006.16	3,896,063	5,240	62	1.59	2.5
Kitchener.....	Nia.	26,709	95	172,394.02	10,336,107	6,434	137	2.29	1.6
London.....	Nia.	66,132	123	425,923.68	29,363,153	16,548	148	2.15	1.4
Niagara Falls....	Nia.	19,013	1	147,578.72	12,406,779	4,398	238	2.84	1.1
Ottawa.....	Ott.	120,799	1	299,943.05	35,624,382	11,734	255	2.14	0.8
Owen Sound....	G. B.	12,368	32	51,778.54	2,850,398	2,950	81	1.48	1.8
Peterborough....	C. O.	21,768	2	104,348.25	5,104,587	5,150	83	1.69	2.0
Port Arthur.....	T. B.	18,305	73	102,013.64	7,713,233	4,006	180	2.37	1.3
St. Catharines...	Nia.	23,327	18	133,617.92	10,624,397	5,742	156	1.97	1.2
St. Thomas.....	Nia.	16,743	134	94,270.32	6,031,804	4,101	123	1.93	1.5
Sarnia.....	Nia.	16,544	205	95,489.61	4,653,562	4,435	88	1.82	2.0
Stratford.....	Nia.	18,208	119	136,477.08	8,333,212	4,234	164	2.69	1.6
Toronto.....	Nia.	569,899	78	3,079,096.39	199,729,673	143,394	116	1.79	1.5
Toronto D.C. and 60 cycle*				79,031.40	2,469,657	1,507	136	4.37	3.2
Welland.....	Nia.	10,085	14	50,099.46	2,826,930	2,215	108	1.91	1.8
Windsor.....	Nia.	66,893	238	550,781.13	34,494,688	15,178	192	3.06	1.6
Woodstock.....	Nia.	10,195	94	76,430.20	4,672,466	2,740	144	2.43	1.6

*This,—with the exception of a relatively small D.C. power load,—is a special service not created by the Hydro-Electric Power Commission but acquired through the purchase of a privately owned company. The service has been continued at the request of the customers who preferred to retain the electrical apparatus installed for this special service, and has been continued at the rates prevailing before the service was acquired by the Commission.

Group II—TOWNS

			miles	\$ c.	kw-hr.		kw-hr.	\$ c.	cts.
Alexandria.....	St. L.	2,284	30	74,999.97	130,105	297	41	2.45	5.8
Amherstburg....	Nia.	3,017	257	18,394.04	781,651	625	106	2.50	2.3
Aylmer.....	Nia.	2,050	145	10,266.56	461,210	587	65	1.45	2.2
Barrie.....	G. B.	7,365	48	37,971.73	2,388,150	1,770	115	1.83	1.6
Brampton.....	Nia.	5,100	78	32,482.59	2,125,406	1,307	136	2.07	1.5
Brockville.....	St. L.	9,322	62	33,660.73	1,448,538	2,406	51	1.19	2.3
Carleton Place...	Rid.	5,293	47	18,394.53	451,145	901	42	1.72	4.1
Collingwood....	G. B.	5,652	24	25,081.85	1,150,541	1,365	71	1.55	2.2
Dundas.....	Nia.	5,009	52	19,419.62	1,027,903	1,132	74	1.48	1.9
Dunnville.....	Nia.	3,386	37	10,525.26	367,023	566	56	1.60	2.9

"D"

in Ontario Municipalities Served by the Commission
and for Power Service during the Year 1929

Population, 10,000 or more

Commercial light service						Power service				Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average horse-power	Average cost per horse-power	
\$ c.	kw-hr.		kw-hr.	\$ c. cts.		\$ c.		\$ c.		
38,871.71	3,825,350	690	460	4.68	1.0	149,256.55	105	7,134	20.92	6,876
67,207.89	3,091,737	698	368	8.01	2.1	81,732.29	137	3,837	21.30	4,624
26,184.98	1,166,390	315	322	7.24	2.2	73,723.00	42	2,749	26.81	3,216
67,548.50	3,184,251	912	288	6.12	2.1	72,555.07	99	3,815	19.01	6,529
44,443.01	2,033,523	512	331	7.23	2.2	90,626.70	117	4,556	19.89	4,031
48,541.07	2,556,356	702	309	5.87	1.8	124,301.99	131	6,664	18.65	5,714
165,914.66	14,114,144	3,295	367	4.32	1.1	993,433.28	829	49,946	19.89	35,259
74,933.59	3,501,015	814	348	7.46	2.1	74,042.96	135	3,894	19.01	6,189
100,912.33	5,690,128	893	539	9.56	1.7	255,881.68	239	12,949	19.76	7,566
197,150.76	12,034,038	2,513	410	6.71	1.6	421,747.87	529	20,144	20.93	19,590
64,172.95	5,458,373	728	645	7.58	1.2	75,099.76	94	4,135	18.16	5,220
145,011.53	9,108,724	1,459	521	8.29	1.6	94,674.94	211	6,304	15.01	13,404
33,203.32	1,970,911	523	310	5.23	1.7	33,066.24	121	2,039	15.22	3,594
65,659.13	3,476,925	745	389	7.34	1.9	104,299.56	155	5,233	19.93	6,050
64,345.67	3,560,574	744	397	7.19	1.8	930,841.28	106	45,963	20.25	4,856
33,941.62	2,563,569	581	378	5.01	1.3	81,436.63	133	5,449	14.94	6,456
43,961.70	2,513,401	635	329	5.75	1.7	60,349.81	106	3,347	18.03	4,842
44,027.54	2,249,081	604	315	6.18	1.9	158,417.74	82	5,071	31.24	5,121
45,165.91	2,060,368	595	289	6.33	2.2	58,882.12	141	2,626	22.42	4,970
2,524,273.71	112,777,416	24,020	391	8.76	2.2	3,068,364.66	3,918	120,090	25.55	171,332
317,389.21	8,115,450	1,857	364	14.24	3.9	639,618.64	1,198	19,190	33.33	4,562
31,796.89	1,754,515	416	354	6.42	1.8	72,527.67	87	3,491	20.77	2,718
283,027.45	15,528,640	2,416	557	10.15	1.8	236,191.75	389	9,855	23.90	17,983
42,187.71	2,485,703	427	473	8.00	1.7	55,731.49	94	3,321	16.78	3,261

NOTE.—The figures for power service for Toronto do not include street railway power, exhibition power and bulk supply to certain other municipalities for street lighting purposes.

NOTE.—The above group of 23 cities utilizes about 80 per cent of the power distributed by the Commission to Ontario municipalities.

Population, 2,000 or more

4,979.16	96,194	105	76	3.95	5.2	8,236.24	14	209	39.47	416
7,748.55	284,829	145	161	4.36	2.7	5,722.04	18	222	25.77	788
8,041.72	376,076	127	249	5.32	2.1	6,063.87	14	296	20.49	728
20,704.02	950,067	330	240	5.23	2.2	13,341.74	37	711	18.76	2,137
14,120.22	837,415	227	310	5.23	1.7	15,394.55	54	869	17.71	1,588
21,919.98	1,148,482	421	233	4.44	1.9	42,427.35	72	1,886	22.49	2,899
9,373.18	226,915	190	102	4.18	4.6	23,953.89	17	773	31.00	1,108
11,759.06	478,481	259	154	3.78	2.5	29,311.51	61	1,363	21.51	1,685
11,380.05	592,827	176	282	5.42	1.9	23,711.37	44	1,376	17.23	1,352
11,416.23	439,051	184	199	5.17	2.6	13,327.36	29	583	22.85	779

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers
For Domestic Service, for Commercial Light Service

Group II—TOWNS

Municipality	System	Popula- tion	Distance from generating station	Domestic service					
				Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	\$ c.	kw-hr.		kw-hr.	\$ c.	cts.
Elmira.....	Nia.	2,692	107	16,571.96	855,803	513	142	2.74	1.9
Goderich.....	Nia.	4,264	167	24,865.42	1,050,475	1,121	79	1.87	2.4
Hanover.....	G. B.	2,785	35	16,185.05	616,060	668	78	2.05	2.6
Hespeler.....	Nia.	2,748	90	16,199.24	774,438	674	96	2.01	2.1
Huntsville.....	G. B.	2,670	26	11,032.22	310,798	518	52	1.80	3.5
Ingersoll.....	Nia.	5,150	104	32,408.62	1,949,404	1,309	124	2.06	1.7
Kincardine.....	G. B.	2,131	69	13,364.67	316,802	536	50	2.12	4.2
Kingsville.....	Nia.	2,427	255	13,057.45	345,081	691	42	1.59	3.8
Leamington.....	Nia.	5,072	263	21,008.03	723,767	1,213	50	1.45	2.9
Lindsay.....	C. O.	7,231	19	40,905.87	1,069,191	1,802	50	1.90	3.8
Listowel.....	Nia.	2,346	154	15,857.04	738,714	687	95	1.96	2.1
Meaford.....	G. B.	2,747	23	10,846.86	335,648	611	47	1.51	3.2
Merritton.....	Nia.	2,556	16	11,932.44	692,989	605	95	1.64	1.7
Midland.....	G. B.	7,820	25	32,987.28	1,909,145	1,560	102	1.77	1.7
Mimico.....	Nia.	5,876	75	49,904.63	2,954,427	1,565	160	2.69	1.6
New Toronto....	Nia.	5,327	76	27,856.02	1,611,805	1,276	112	1.93	1.7
Orangeville.....	G. B.	2,679	47	10,795.50	397,800	619	55	1.48	2.7
Paris.....	Nia.	4,063	76	24,219.15	1,398,203	1,354	92	1.66	1.7
Penetang.....	G. B.	3,985	29	8,858.60	462,314	537	71	1.37	1.9
Perth.....	Rid.	2,712	21	20,952.57	681,893	816	72	2.15	3.0
Petrolia.....	Nia.	2,516	231	11,140.38	568,705	673	72	1.54	2.0
Picton.....	C. O.	3,266	33	18,142.51	1,032,758	926	93	1.63	1.8
Port Colborne...	Nia.	5,203	21	29,627.95	1,433,422	1,190	102	2.11	2.1
Prescott.....	St. L.	2,724	48	12,770.09	778,513	613	107	1.76	1.6
Preston.....	Nia.	5,697	86	45,994.01	2,392,998	1,506	134	2.57	2.0
Riverside.....	Nia.	4,383	243	46,589.62	2,088,938	1,111	162	3.62	2.2
St. Marys.....	Nia.	4,023	133	25,049.83	1,174,672	985	99	2.12	2.1
Sandwich.....	Nia.	10,258	245	102,614.64	6,262,462	2,790	193	3.12	1.6
Simcoe.....	Nia.	4,581	103	13,434.70	703,239	848	72	1.37	1.9
Smiths Falls....	Rid.	7,105	38	41,055.96	1,193,469	1,600	63	2.15	3.4
Strathroy.....	Nia.	2,702	150	17,477.04	838,528	780	91	1.89	2.1
Thorold.....	Nia.	4,935	9	19,242.41	996,965	1,202	70	1.34	1.9
Tillsonburg.....	Nia.	3,257	116	12,126.96	662,128	826	68	1.23	1.8
Walkerville.....	Nia.	10,208	239	109,691.92	7,385,643	2,649	239	3.58	1.5
Wallaceburg....	Nia.	4,234	211	16,760.11	711,793	977	62	1.47	2.4
Waterloo.....	Nia.	7,459	96	52,180.98	3,282,697	1,694	163	2.59	1.6
Weston.....	Nia.	4,190	80	31,491.12	2,227,453	1,119	169	2.39	1.4
Whitby.....	C. O.	5,195	80	17,606.51	888,199	784	95	1.87	2.0
Wingham.....	G. B.	2,266	70	12,758.55	312,317	535	50	2.05	4.1

NOTE.—The above group of 49 towns utilizes about 12 per cent of the power distributed by the Commission to Ontario municipalities.

"D"—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the Year 1929

of Population, 2,000 or more

Commercial light service						Power service				Total number of con- sumers
Revenue	Consump- tion	Number of con- sumers	Average Monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average horse- power	Average cost per horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cts.	\$ c.			\$ c.	
7,885.82	320,088	125	221	5.43	2.5	16,313.61	20	567	28.77	658
11,357.19	382,686	209	155	4.59	3.0	20,710.89	18	1,054	19.65	1,348
6,160.48	227,767	116	165	4.46	2.7	19,341.18	17	657	29.44	801
5,932.32	278,333	104	228	4.75	2.1	15,882.23	20	884	17.97	798
6,626.05	200,289	96	168	5.31	3.3	15,317.97	12	935	16.38	626
15,769.04	859,552	250	285	5.23	1.8	28,009.00	45	1,399	20.02	1,604
7,537.29	155,243	121	111	5.37	4.9	9,108.59	21	351	25.95	678
6,244.72	182,960	156	100	3.42	3.4	3,649.10	14	159	22.95	861
13,818.52	470,299	222	171	5.02	2.9	14,730.93	26	523	28.17	1,461
26,086.87	694,350	336	174	6.53	3.8	36,013.87	71	1,542	23.36	2,209
7,917.03	305,744	155	164	4.26	2.6	12,054.54	25	510	23.64	867
5,861.34	185,296	135	114	3.62	3.2	5,668.66	16	246	23.04	762
1,816.93	81,659	55	124	2.75	2.2	39,952.64	5	1,706	23.42	665
12,513.31	786,206	236	280	4.82	1.6	89,764.19	62	6,257	14.35	1,858
8,438.04	394,313	131	263	5.63	2.1	10,561.00	14	453	23.31	1,710
8,997.28	528,654	136	347	5.90	1.7	124,022.80	27	4,916	25.23	1,439
8,119.54	326,418	157	182	4.51	2.5	7,919.07	29	365	21.70	805
7,465.29	370,111	175	167	3.36	2.0	13,204.16	23	784	16.88	1,552
3,316.44	171,610	98	144	2.79	1.9	11,688.41	26	482	24.24	661
12,955.75	380,977	179	175	5.96	3.4	16,574.49	24	572	28.99	1,019
6,807.34	257,783	187	116	3.12	2.6	24,911.83	65	808	30.84	925
9,260.24	400,120	182	179	4.65	2.3	10,443.38	47	412	25.37	1,155
11,909.14	605,366	193	261	5.14	2.0	14,208.25	21	457	31.09	1,404
7,752.19	440,888	166	227	3.98	1.8	5,340.28	19	318	16.77	798
21,303.50	1,002,774	232	365	7.75	2.1	46,041.05	50	2,369	19.44	1,788
5,631.92	229,611	55	336	8.25	2.4	10,400.39	9	314	33.12	1,175
8,765.53	364,254	194	157	3.78	2.4	18,907.69	40	758	24.94	1,219
19,369.50	1,011,611	208	409	7.83	1.9	21,480.71	29	821	26.17	3,027
17,925.78	1,012,575	267	327	5.78	1.8	12,553.47	35	539	23.29	1,150
16,454.79	528,775	258	173	5.39	3.1	28,113.46	43	910	30.90	1,901
9,867.13	424,395	179	202	4.70	2.3	10,471.00	26	554	18.90	985
6,450.82	384,642	206	167	2.81	1.7	14,112.08	13	860	16.41	1,421
11,509.34	548,880	203	222	4.65	2.1	11,907.73	29	497	23.98	1,058
37,421.05	1,853,464	347	450	9.09	2.0	185,472.06	99	7,271	25.50	3,095
9,857.78	387,231	227	150	3.84	2.5	95,022.55	28	3,817	24.89	1,232
23,045.99	1,108,896	225	421	8.76	2.1	31,988.21	70	1,731	18.47	1,989
8,847.93	426,865	174	222	4.60	2.1	51,489.39	28	2,232	23.07	1,321
9,428.47	375,419	146	215	5.41	2.5	17,450.24	15	698	24.98	945
8,191.59	177,480	160	93	4.26	4.6	13,306.08	26	458	29.05	721

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers
For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

NOTE.—The power used in the smaller places and rural districts is, and possibly must always be, a relatively small porportion of the power distributed by the Commission. Thus, the power used by the small municipalities in the following group, which includes small towns, villages and certain surburban areas in townships, is less than 10 per cent. of the power distributed by the Commission to Ontario municipalities. This relatively small porportion of the total power,

Municipality	System	Popula- tion	Distance from generating station	Domestic service					
				Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr
			miles	\$ c.	kw-hr.		kw-hr.	\$ c.	cts.
Acton.....	Nia.	1,973	91	9,719.56	460,517	475	82	1.73	2.1
Agincourt.....	Nia.	P.V.	93	3,922.00	122,358	136	76	2.46	3.2
Ailsa Craig.....	Nia.	521	148	2,776.39	50,192	131	30	1.67	5.5
Alliston.....	G. B.	1,329	74	8,709.44	163,369	325	42	2.25	5.3
Alvinston.....	Nia.	635	267	4,402.53	66,077	156	36	2.39	6.6
†Ancaster Twp..	Nia.	4,073	59	14,824.37	.....	573	.....	.....	.....
Apple Hill.....	St. L.	P.V.	19	1,006.38	18,742	37	42	2.26	5.4
Arkona.....	Nia.	385	250	2,247.20	47,366	90	41	1.97	4.7
Arthur.....	G. B.	1,010	63	3,979.17	59,133	156	31	2.15	6.8
*Athens.....	St. L.	625	75	.....	.....	120	.....	.....	.....
Ayr.....	Nia.	789	84	3,987.35	209,369	187	92	1.76	1.9
Baden.....	Nia.	P.V.	103	3,103.48	157,462	121	110	2.17	2.0
Barton Twp.....	Nia.	7,795	46	1,790.13	75,563	73	87	2.04	2.4
Beachville.....	N a.	P.V.	101	2,450.31	97,344	121	71	1.80	2.5
†Beaverton.....	G. B.	1,018	28	7,094.38	250,878	379	55	1.58	2.8
Beeton.....	G. B.	560	80	3,392.54	63,443	112	47	2.50	5.3
Belle River.....	Nia.	791	250	4,060.97	122,632	174	59	1.97	3.3
Blenheim.....	Nia.	1,595	202	7,836.02	298,617	489	52	1.36	2.6
Bloomfield.....	C. O.	572	29	2,652.87	61,222	145	35	1.52	4.3
Blyth.....	Nia.	641	161	3,043.78	66,905	140	40	1.85	4.5
Bolton.....	Nia.	599	98	3,011.53	73,125	146	42	1.75	4.1
Bothwell.....	Nia.	630	217	2,792.64	79,691	154	44	1.54	3.5
Bradford.....	G. B.	915	74	4,719.87	99,570	190	44	2.10	4.8
Brantford Twp..	Nia.	7,075	79	18,466.36	803,210	739	93	2.14	2.3
Brechin.....	G. B.	P.V.	18	980.98	17,425	40	36	2.04	5.6
Bridgeport.....	Nia.	P.V.	98	3,537.63	169,151	98	149	3.13	2.1
Brigden.....	Nia.	P.V.	233	2,298.61	54,819	105	44	1.85	4.2
Brussels.....	Nia.	736	159	4,363.13	118,684	181	55	2.03	3.7
Burford.....	Nia.	P.V.	83	3,817.53	152,740	177	71	1.79	2.5
Burgessville.....	Nia.	P.V.	116	1,209.99	33,154	50	55	2.02	3.6
Caledonia.....	Nia.	1,450	65	3,795.47	101,973	241	35	1.31	3.7
Campbellville...	Nia.	P.V.	96	1,136.99	20,488	38	45	2.49	5.5
Cannington.....	G. B.	889	36	4,557.85	154,477	226	56	1.68	2.9
Cayuga.....	Nia.	619	82	2,060.63	48,029	80	50	2.15	4.3
Chatsworth.....	G. B.	316	23	1,196.35	17,938	57	27	1.81	6.7

*11 months' operation.

‡Includes certain rural consumers.

†13 " "

“D”—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the Year 1929

VILLAGES, AND SUBURBAN AREAS

however, exerts upon the economic life of the Province a most beneficial influence. It should further be appreciated that about 35 per cent of these municipalities obtain their power, not from Niagara, but from relatively small and isolated water-power developments throughout the Province. The net cost per kilowatt-hour given in the table is the cost inclusive of all charges. Consult also introduction to Statement “D,” page 360.

Commercial light service						Power service				Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average horse-power	Average cost per horse-power	
\$ c.	kw-hr.		kw-hr.	\$ c. cts.		\$ c.			\$ c.	
3,157.19	134,227	80	156	3.52 2.4		13,154.60	19	491	26.79	574
820.26	17,634	17	86	4.06 4.6		1,537.81	3	61	25.12	156
1,525.03	27,794	44	53	2.95 5.5		1,162.30	1	45	25.82	176
5,389.77	93,570	104	74	4.27 5.8		2,828.91	14	120	23.57	443
2,515.88	48,379	58	75	3.88 5.2		1,604.30	4	48	35.88	218
2,503.89		52				601.75	5			630
751.54	12,554	17	61	3.68 6.0		227.06	1	11	21.44	55
1,288.50	33,067	39	76	2.98 3.9		1,010.97	3	26	38.88	132
3,569.81	47,812	82	49	3.67 7.4		1,685.38	4	45	37.45	242
		38								158
1,623.38	68,029	49	118	2.81 2.4		872.98	6	37	23.53	242
901.18	34,714	30	103	2.68 2.6		6,405.43	3	226	28.29	154
151.62	4,386	5	73	2.52 3.4		868.34	2	57	15.23	80
856.25	24,364	30	70	2.46 3.5		7,782.16	4	330	23.56	155
2,390.31	101,852	57	151	3.55 2.3		2,459.10	9	97	25.35	445
2,573.77	43,068	34	102	6.12 6.0		3,476.61	6	98	35.47	152
1,508.22	42,324	33	112	3.93 3.6		1,330.22	4	53	25.19	211
5,526.61	241,191	114	174	4.00 2.3		4,815.44	12	205	23.48	615
867.69	20,086	25	69	3.01 4.3		3,067.44	7	97	31.75	177
1,556.69	33,321	53	56	2.64 4.7		1,241.74	5	50	24.83	198
894.67	25,808	40	51	1.77 3.5		2,548.77	9	95	26.74	195
1,457.63	43,529	50	72	2.42 3.3		1,025.93	6	49	20.93	210
3,584.63	64,637	57	97	5.43 5.5		5,207.87	7	183	28.45	254
3,680.30	195,581	46	379	7.13 1.8		3,735.39	4	106	35.37	789
1,063.45	20,932	27	67	3.40 5.0		986.28	4	38	25.95	71
1,058.20	33,515	16	186	5.87 3.2		1,601.56	3	53	29.99	117
1,695.15	44,909	41	91	3.44 3.8		2,166.98	6	46	47.10	152
2,315.22	53,247	58	76	3.47 4.3		487.05	1	15	32.47	240
1,018.04	35,966	35	85	2.42 2.8		2,027.79	4	78	26.06	216
645.97	18,654	23	74	2.56 3.5		1,241.87	2	43	28.88	75
4,379.83	149,800	85	147	4.29 2.9		3,500.71	10	134	26.13	343
456.35	13,105	8	136	4.75 3.5						46
2,194.62	66,048	65	82	2.68 3.3		890.05	11	66	13.48	302
1,993.33	42,472	46	77	3.61 4.7		969.37	3	25	38.77	129
1,441.66	22,177	35	52	3.43 6.5		404.30	1	20	20.21	93

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers
For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Distance from generating station	Domestic service					
				Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	\$ c.	kw-hr.		kw-hr.	\$ c.	cts.
Chesley.....	G. B.	1,801	46	7,230.25	227,762	405	47	1.52	3.2
Chesterville.....	St. L.	1,013	44	4,282.23	163,348	212	65	1.71	2.6
Chippawa.....	Nia.	1,207	4	6,323.20	293,798	250	95	2.05	2.1
Clifford.....	Nia.	493	173	1,780.21	30,204	90	29	1.74	5.8
Clinton.....	Nia.	1,936	155	11,165.86	475,568	502	79	1.86	2.3
Coldwater.....	G. B.	610	17	2,436.09	105,805	126	69	1.59	2.3
Comber.....	Nia.	P.V.	216	2,459.37	68,548	98	58	2.06	3.6
Cookstown.....	G. B.	P.V.	65	2,063.72	25,388	92	23	1.86	8.1
Cottam.....	Nia.	P.V.	257	2,266.99	48,708	100	42	1.98	4.6
Courtright.....	Nia.	417	215	1,894.64	29,797	71	35	2.28	6.3
Creemore.....	G. B.	605	60	1,984.67	53,969	145	31	1.12	3.6
Dashwood.....	Nia.	P.V.	163	1,522.87	31,946	61	43	2.08	4.7
Delaware.....	Nia.	P.V.	137	1,240.79	21,979	48	38	2.15	5.6
Dorchester.....	Nia.	P.V.	129	2,599.39	84,676	129	55	1.69	3.0
Drayton.....	Nia.	574	169	2,695.13	74,664	150	40	1.46	3.7
Dresden.....	Nia.	1,424	210	5,169.50	150,757	348	35	1.23	3.4
Drumbo.....	Nia.	P.V.	90	1,883.66	64,038	77	65	1.93	2.9
Dublin.....	Nia.	P.V.	140	996.88	19,156	45	38	2.02	5.2
Dundalk.....	G. B.	560	18	2,302.98	62,370	151	34	1.26	3.6
Durham.....	G. B.	1,720	23	5,460.40	154,635	372	35	1.25	3.5
Dutton.....	Nia.	802	152	3,229.98	126,257	202	52	1.38	2.5
Elmvale.....	G. B.	P.V.	32	2,241.25	69,825	148	42	1.34	3.2
Elmwood.....	G. B.	P.V.	40	972.39	13,011	50	21	1.62	7.4
Elora.....	Nia.	1,216	94	6,696.47	255,748	290	74	1.95	2.6
Embro.....	Nia.	431	107	2,557.32	82,143	95	71	2.21	3.2
Erieau.....	Nia.	201	210	2,779.71	43,454	121	30	1.94	6.3
*Erie Beach.....	Nia.	21	209	1,189.01	14,316	54	22	1.83	8.3
Essex.....	Nia.	1,821	254	8,133.46	265,041	408	54	1.66	3.1
Etobicoke Twp..	Nia.	13,633	73	85,915.07	3,895,854	3,582	93	2.07	2.2
Exeter.....	Nia.	1,583	155	10,080.06	407,018	430	79	1.96	2.4
Fergus.....	Nia.	2,080	94	12,730.43	543,445	572	82	1.93	2.3
Finch.....	St. L.	344	53	1,940.27	17,399	67	21	2.44	11.1
Flesherton.....	G. B.	442	7	2,114.36	52,335	122	43	1.76	4.0
Fonthill.....	Nia.	727	25	4,342.13	147,452	204	60	1.77	2.9
Forest.....	Nia.	1,415	256	9,641.81	279,155	439	53	1.84	3.4
Georgetown.....	Nia.	1,973	100	11,536.17	570,254	611	78	1.58	2.0
Glencoe.....	Nia.	793	229	5,240.13	123,507	215	48	2.05	4.2
Grand Valley....	G. B.	546	51	2,658.35	50,500	133	31	1.67	5.2
Granton.....	Nia.	P.V.	147	1,547.39	55,653	78	61	1.69	2.7
Gravenhurst....	G. B.	1,846	7	7,108.78	303,984	411	62	1.44	2.3

*Unusual conditions—Summer resort.

"D"—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the Year 1929

VILLAGES AND SUBURBAN AREAS

Commercial light service						Power service				Total number of con- sumers
Revenue	Consump- tion	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average horse- power	Average cost per horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cts.	\$ c.			\$ c.	
4,098.54	151,304	102	124	3.38	2.7	9,499.47	20	299	32.13	527
2,375.93	76,552	60	119	3.24	3.1	4,638.96	3	161	28.74	275
1,462.89	81,980	42	163	2.90	1.8	1,474.89	5	40	36.87	297
1,261.29	27,244	36	61	3.06	4.6	96.90	1	5	19.38	127
5,190.14	174,160	116	121	3.60	2.9	6,062.22	15	260	23.31	633
1,478.17	57,008	58	84	2.19	2.6	3,467.01	4	128	27.08	188
2,068.03	49,685	45	90	3.74	4.1	3,483.47	2	91	38.27	145
1,576.84	20,617	36	47	3.65	7.6	73.96	2	8	9.24	130
1,290.76	37,873	27	121	4.13	3.4	467.08	2	20	23.35	129
1,150.26	27,539	22	104	4.35	4.1	208.44	1	5	41.68	94
1,977.44	53,418	55	78	2.89	3.7	1,526.95	5	61	25.03	205
1,008.11	17,438	25	58	3.36	5.7	1,347.66	1	43	31.34	87
730.40	15,575	19	72	3.38	4.6	.....	.....	.....	.....	67
1,049.28	25,324	31	68	2.82	4.1	590.50	2	32	18.46	162
1,941.69	42,218	51	69	3.17	4.6	1,487.04	5	58	25.64	206
4,383.34	166,876	123	113	2.96	2.6	6,219.15	14	215	28.92	485
669.59	21,872	23	82	2.53	3.0	904.58	2	29	31.24	102
792.72	15,097	18	59	3.14	5.2	1,183.76	4	37	32.25	67
2,242.77	65,968	76	73	2.49	3.3	2,459.27	3	117	21.01	230
4,230.01	133,715	102	109	3.45	3.1	15,117.81	12	501	30.17	486
2,615.80	96,750	71	115	3.11	2.7	2,926.93	8	128	22.77	281
1,491.82	48,306	55	77	2.39	3.0	4,162.69	9	173	24.06	212
547.17	7,614	19	33	2.39	7.1	1,478.04	1	33	44.78	70
3,864.94	113,562	76	126	4.29	3.4	9,145.98	3	344	26.57	369
1,515.56	28,749	40	58	3.08	5.2	1,295.98	3	45	28.80	138
1,003.35	26,271	11	218	8.36	3.8	278.02	1	5	55.60	133
202.94	3,605	2	150	8.45	5.6	.....	.....	.....	.....	56
5,971.76	189,834	115	137	4.32	3.1	6,141.99	17	266	23.09	540
21,526.44	1,031,647	327	263	5.50	2.0	15,091.52	22	705	21.40	3,931
4,651.43	151,310	119	109	3.37	3.0	6,306.00	10	270	23.35	559
6,025.63	203,621	114	152	4.52	3.0	9,070.97	15	327	27.73	701
1,638.77	15,299	33	42	4.55	10.7	1,413.60	1	30	46.74	101
1,766.62	43,535	40	93	3.77	4.0	291.65	1	25	11.66	163
841.07	32,583	25	123	3.18	2.5	666.22	3	24	27.75	232
4,477.11	131,224	131	86	2.96	3.4	4,994.93	23	199	25.15	593
5,513.76	259,536	125	168	3.58	2.1	20,155.32	25	852	23.65	761
3,524.91	89,355	74	103	4.07	3.9	2,634.33	6	105	25.08	295
2,020.19	33,595	53	53	3.23	6.0	1,809.24	2	58	33.09	188
1,026.95	32,333	31	86	2.76	3.1	1,111.89	1	39	28.51	110
4,673.52	264,904	62	356	6.28	1.8	8,573.43	14	347	24.71	487

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers
For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Population	Distance from generating station	Domestic service						
				Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	
			miles	\$ c.	kw-hr.		kw-hr.	\$ c.	cts.	
Hagersville.....	Nia.	1,290	75	4,119. 17	172,727	288	51	1. 23	2. 3	
Harriston.....	Nia.	1,145	167	5,890. 16	210,442	307	58	1. 62	2. 7	
Harrow.....	Nia.	P.V.	267	6,916. 42	265,732	211	108	2. 81	2. 6	
Havelock.....	C. O.	1,134	25	6,343. 23	131,517	289	37	1. 82	4. 8	
Hensall.....	Nia.	748	161	4,024. 20	126,415	171	63	2. 03	3. 1	
Highgate.....	Nia.	359	217	1,603. 17	37,035	91	33	1. 45	4. 3	
Holstein.....	G. B.	P.V.	34	1,015. 50	7,860	48	13	1. 80	12. 9	
Humberstone....	Nia.	1,766	22	8,978. 01	297,218	449	58	1. 77	3. 0	
Jarvis.....	Nia.	460	81	1,539. 00	37,093	81	38	1. 60	4. 1	
Kemptville.....	Rid.	1,269	62	5,644. 19	138,690	267	42	1. 74	4. 0	
Kirkfield.....	G. B.	P.V.	35	681. 12	11,398	26	39	2. 36	5. 9	
Lakefield.....	C. O.	1,469	8	6,133. 18	152,657	289	44	1. 77	4. 2	
Lambeth.....	Nia.	P.V.	130	3,213. 60	89,282	101	75	2. 73	3. 5	
Lanark.....	Rid.	579	21	2,240. 73	36,512	115	26	1. 60	6. 1	
Lancaster.....	St. L.	560	25	1,935. 65	23,181	71	27	2. 30	8. 3	
La Salle.....	Nia.	623	248	8,441. 06	333,409	195	159	4. 04	2. 5	
London Twp....	Nia.	7,448	128	7,508. 40	267,391	285	78	1. 90	2. 8	
Lucan.....	Nia.	573	141	4,561. 55	162,635	168	80	2. 26	2. 8	
Lucknow.....	G. B.	1,062	68	6,187. 28	147,614	259	49	2. 10	4. 1	
Lynden.....	Nia.	P.V.	62	1,592. 65	56,288	75	62	1. 77	3. 0	
Markdale.....	G. B.	797	7	3,182. 94	114,133	180	53	1. 48	2. 7	
Markham.....	Nia.	956	114	5,124. 65	130,346	243	45	1. 78	3. 9	
Marmora.....	C. O.	853	20	3,315. 56	58,860	184	27	1. 55	5. 6	
Martintown....	St. L.	P.V.	14	723. 96	9,871	33	24	1. 82	7. 4	
Maxville.....	St. L.	774	26	2,964. 74	34,078	128	22	1. 96	8. 6	
Merlin.....	Nia.	P.V.	219	1,908. 83	54,383	100	46	1. 62	3. 5	
Milton.....	Nia.	1,875	88	10,323. 42	416,435	454	77	1. 92	2. 4	
Milverton.....	Nia.	1,025	139	4,742. 88	208,783	220	79	1. 80	2. 3	
Mitchell.....	Nia.	1,574	135	8,884. 55	397,891	440	76	1. 71	2. 2	
Moorefield.....	Nia.	P.V.	168	741. 56	14,533	50	24	1. 25	5. 1	
Mt. Brydges....	Nia.	P.V.	141	2,478. 49	68,884	128	46	1. 66	3. 7	
Mt. Forest.....	G. B.	1,911	38	7,074. 82	242,147	394	52	1. 52	2. 9	
Neustadt.....	G. B.	408	40	2,067. 97	19,368	90	18	1. 95	10. 6	
Newbury.....	Nia.	288	223	1,010. 36	19,757	59	27	1. 42	5. 1	
New Hamburg...	Nia.	1,446	106	9,503. 36	441,868	353	108	2. 32	2. 1	
Niagara-on-the-Lake.....	Nia.	1,606	13	12,379. 41	634,869	427	127	2. 47	1. 9	
Nipigon.....	T. B.	P.V.	14	2,212. 42	40,428	101	34	1. 90	5. 4	
Norwich.....	Nia.	1,279	110	7,073. 95	345,479	340	85	1. 74	2. 1	
Norwood.....	C. O.	752	10	4,319. 15	88,733	206	35	1. 73	4. 8	
Oil Springs.....	Nia.	417	226	1,331. 87	24,656	69	30	1. 64	5. 4	

"D"—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the Year 1929

VILLAGES AND SUBURBAN AREAS

Commercial light service						Power service				Total number of con- sumers
Revenue	Consump- tion	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average horse- power	Average cost per horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cts.	\$ c.			\$ c.	
3,948.38	195,096	106	157	3.19	2.0	29,403.09	14	1,344	21.86	408
3,554.23	112,851	92	99	3.15	3.1	6,713.33	12	256	26.19	411
3,965.06	134,985	70	165	4.85	2.9	3,086.78	4	103	29.96	285
1,894.48	41,280	50	72	3.28	4.5	6,470.91	3	195	33.15	342
1,520.56	57,475	58	82	2.18	2.6	3,008.82	13	107	28.11	242
910.55	24,050	35	58	2.23	3.7	1,987.02	6	59	33.33	132
575.04	5,667	17	27	2.81	10.1	272.54	1	8	36.33	66
3,119.88	124,566	67	162	4.06	2.5	5,406.59	10	219	24.73	526
1,227.14	39,623	36	130	3.93	3.0	4,079.10	4	140	29.20	121
3,566.50	88,207	78	98	3.96	4.0	4,593.20	6	152	30.27	351
693.77	12,776	17	70	3.85	5.5	357.34	1	20	17.86	44
5,092.93	124,332	76	136	5.58	4.1	3,040.66	7	126	24.13	372
1,132.23	45,496	19	223	5.55	2.4	306.57	1	7	43.79	121
1,182.53	21,814	33	55	2.98	5.4	122.63	2	5	24.53	150
2,211.59	23,944	39	55	5.11	9.2	.....	.....	.....	.....	110
3,749.86	133,019	27	443	12.49	2.8	3,208.34	3	82	38.93	225
1,275.03	42,210	13	293	8.85	3.0	1,327.14	3	38	34.92	301
1,818.47	49,877	43	98	3.60	3.6	2,196.81	9	87	25.25	220
3,360.79	63,215	84	63	3.36	5.3	4,010.84	5	113	35.55	348
876.17	34,492	20	143	3.65	2.5	936.56	1	42	22.59	96
2,369.41	71,307	74	78	2.59	3.3	1,134.51	9	95	11.94	263
2,758.31	60,992	67	78	3.52	4.5	2,787.30	10	101	27.70	320
1,793.93	40,962	48	72	3.11	4.3	474.28	3	25	19.20	235
845.50	11,341	19	49	3.70	7.4	.....	.....	.....	.....	52
1,985.41	28,524	46	49	3.44	6.9	260.16	2	5	54.65	176
1,372.03	44,361	40	94	2.93	3.1	4,728.90	4	134	35.23	144
5,180.34	192,233	101	166	4.49	2.7	31,209.49	21	1,152	27.09	576
2,525.71	84,151	68	103	3.10	3.0	9,932.24	8	421	23.59	296
4,714.13	188,348	114	137	3.41	2.5	6,151.74	22	299	20.95	576
601.59	10,098	26	32	1.92	5.9	1,314.92	2	38	34.24	78
925.03	22,578	35	58	2.40	4.0	1,015.97	3	31	32.77	166
5,205.06	169,733	136	104	3.18	3.3	6,320.65	12	265	23.85	542
1,328.91	16,616	26	53	4.90	7.9	120.08	2	3	40.03	118
708.30	9,979	28	33	2.36	7.0	619.37	1	26	23.82	88
4,018.36	143,265	87	131	4.05	2.8	6,173.08	11	258	24.71	451
3,014.77	134,779	73	155	3.48	2.3	2,651.40	10	99	26.78	510
1,858.87	49,192	36	128	4.84	3.7	.....	.....	.....	.....	137
2,860.87	109,721	85	106	2.77	2.6	2,570.36	8	120	21.43	433
2,301.73	44,631	66	54	2.82	5.1	1,871.15	4	70	26.88	276
1,082.01	23,741	35	56	2.60	4.6	9,517.24	36	283	33.62	140

STATEMENT

**Statistics Relating to the Supply of Electric Energy to Consumers
For Domestic Service, for Commercial Light Service**

Group III—SMALL TOWNS (less than 2,000 population)

Municipality	System	Popula- tion	Distance from generating station	Domestic service					
				Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	\$ c.	kw-hr.		kw-hr.	\$ c.	cts.
Omemeë.....	C. O.	511	15	2,281.74	54,740	127	35	1.48	4.1
Otterville.....	Nia.	P.V.	115	2,040.15	62,450	107	50	1.63	3.2
Paisley.....	G. B.	730	56	3,547.23	45,966	168	23	1.78	7.7
Palmerston.....	Nia.	1,650	161	10,031.47	483,815	390	104	2.23	2.0
Parkhill.....	Nia.	959	157	4,536.89	107,595	215	42	1.76	4.2
Plattsville.....	Nia.	P.V.	96	2,007.90	36,435	87	36	1.96	5.5
Point Edward...	Nia.	1,371	209	5,522.02	198,451	295	58	1.61	2.7
Port Credit.....	Nia.	1,381	69	10,828.26	616,017	380	137	2.43	1.7
Port Dalhousie...	Nia.	1,580	21	11,929.22	668,070	564	99	1.78	1.7
Port Dover.....	Nia.	1,572	108	6,262.51	170,627	364	42	1.48	3.6
Port McNicoll...	G. B.	879	21	3,123.44	85,729	159	44	1.63	3.7
Port Perry.....	G. B.	1,150	58	6,654.25	170,032	271	52	2.06	3.9
Port Rowan.....	Nia.	669	124	2,215.22	37,085	74	43	2.60	5.9
Port Stanley.....	Nia.	618	146	10,373.76	384,366	565	68	1.83	2.6
Priceville.....	G. B.	P.V.	12	538.17	4,361	25	14	1.79	12.3
Princeton.....	Nia.	P.V.	96	2,556.46	45,547	89	44	2.50	5.6
Queenston.....	Nia.	P.V.	7	2,536.28	111,394	66	147	3.35	2.2
Richmond.....	Ott.	365	19	1,298.53	22,452	36	51	3.00	5.7
Richmond Hill...	Nia.	1,170	103	5,698.62	202,248	337	52	1.47	2.8
Ridgetown.....	Nia.	1,986	211	9,639.22	398,048	533	62	1.50	2.4
Ripley.....	G. B.	449	69	2,791.34	40,473	100	35	2.42	6.8
Rockwood.....	Nia.	P.V.	87	2,562.05	101,990	138	63	1.59	2.5
Rodney.....	Nia.	712	163	2,932.60	92,292	192	39	1.25	3.1
Russell.....	St. L.	P.V.	58	2,369.34	30,544	102	25	1.99	7.7
St. Clair Beach..	Nia.	136	247	1,915.49	84,010	43	170	3.89	2.2
St. George.....	Nia.	P.V.	82	2,546.38	150,596	131	98	1.65	1.6
St. Jacobs.....	Nia.	P.V.	102	2,874.02	137,670	102	114	2.39	2.0
Scarboro Twp...	Nia.	15,325	87	69,416.10	3,157,665	3,972	71	1.56	2.2
Seaforth.....	Nia.	1,670	147	8,968.11	390,076	470	70	1.59	2.2
Shelburne.....	G. B.	1,120	31	5,498.07	157,406	295	45	1.57	3.4
Springfield.....	Nia.	397	151	1,751.54	50,037	89	45	1.60	3.5
Stamford Twp...	Nia.	6,650	2	53,896.04	2,946,777	1,477	177	3.23	1.8
Stayner.....	G. B.	967	53	3,519.57	140,348	223	53	1.33	2.5
Stouffville.....	Nia.	1,071	110	5,517.15	126,823	303	36	1.60	4.3
Sunderland.....	G. B.	P.V.	44	1,823.26	28,255	97	24	1.56	6.4
Sutton.....	Nia.	825	114	6,329.53	120,176	350	29	1.54	5.2
Tara.....	G. B.	453	34	2,891.48	45,760	114	34	2.15	6.3
Tavistock.....	Nia.	965	129	6,179.39	303,526	245	107	2.12	2.0
Tecumseh.....	Nia.	2,164	246	15,772.85	479,448	491	88	2.90	3.2
Teeswater.....	G. B.	813	58	4,785.42	68,762	208	28	1.97	6.9

"D"—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the Year 1929

VILLAGES AND SUBURBAN AREAS

Commercial light service						Power service				Total number of con- sumers
Revenue	Consump- tion	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average horse- power	Average cost per horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cts.	\$ c.			\$ c.	
1,101.55	25,321	36	55	2.41	4.4	303.87	7	19	16.24	170
1,682.60	46,353	42	96	3.50	3.6	706.98	3	25	28.05	152
2,194.52	49,907	49	81	3.58	4.3	1,201.38	4	34	35.33	221
5,337.20	533,528	109	.....	.....	.....	6,981.60	9	194	35.98	508
2,931.53	73,565	76	81	3.21	3.9	1,583.51	5	71	22.30	296
989.60	19,500	25	65	3.30	5.1	108.00	1	5	21.60	113
1,790.13	53,301	43	103	3.46	3.3	10,805.26	13	480	22.71	351
4,573.41	221,808	95	217	4.48	2.1	1,587.47	4	67	23.69	479
2,360.92	134,586	48	238	4.18	1.7	3,977.48	9	195	20.39	621
4,839.88	150,592	133	96	3.10	3.2	4,332.29	13	188	23.10	510
564.61	17,691	28	54	1.74	3.1	72.45	1	2	36.22	188
1,899.07	49,487	72	60	2.32	3.8	4,022.73	12	145	27.74	355
1,678.88	26,101	32	68	4.37	6.4	38.41	1	1	38.41	107
2,937.12	72,267	74	81	3.30	4.0	4,284.30	13	139	30.82	652
278.33	2,700	9	25	2.57	10.3	.....	.....	.....	.....	34
368.12	17,711	13	98	2.04	2.0	1,992.24	1	43	46.22	103
206.64	6,887	6	95	2.87	3.0	850.85	1	29	29.64	73
1,513.84	25,743	27	79	4.67	5.8	.....	.....	.....	.....	63
2,960.39	127,252	57	186	4.32	2.3	2,577.82	12	128	20.15	406
4,921.64	200,171	130	128	3.15	2.4	7,106.73	22	348	20.44	685
2,403.90	27,784	46	51	4.45	8.6	.....	.....	.....	.....	146
967.52	29,399	30	40	1.32	3.2	.....	.....	.....	.....	168
2,282.00	71,232	71	86	2.75	3.2	1,362.13	5	84	16.17	268
1,446.23	19,818	33	51	3.76	7.2	.....	.....	.....	.....	135
2,187.07	40,541	6	48	2.60	5.3	698.87	2	20	34.99	51
780.10	33,974	31	91	2.09	2.2	2,228.28	3	92	24.29	165
1,188.01	41,646	25	133	3.80	2.8	3,406.33	6	120	28.26	133
14,815.49	582,194	302	175	4.45	2.5	24,093.64	27	871	27.67	4,301
5,427.10	217,676	122	148	3.70	2.4	8,147.21	14	346	18.24	606
3,870.54	118,963	94	105	3.43	3.2	2,934.28	8	125	23.47	397
893.57	16,588	35	41	2.25	5.3	3,168.34	4	107	29.61	128
5,854.51	167,141	109	107	4.31	3.5	5,997.40	13	288	20.79	1,599
2,177.64	77,576	73	92	2.59	2.8	2,521.76	10	123	20.50	306
2,510.06	59,322	82	63	2.68	4.2	1,361.99	5	60	22.69	390
1,677.40	33,767	39	72	3.58	4.9	272.74	3	12	23.19	139
2,804.74	52,345	71	66	3.54	5.3	1,281.45	3	35	36.66	424
1,836.87	17,461	38	38	4.02	10.5	1,128.95	4	34	33.20	156
1,928.10	78,686	72	91	2.23	2.4	8,663.42	6	340	25.47	323
3,943.86	131,077	51	227	6.84	3.0	4,326.87	2	112	38.63	544
3,041.25	45,168	60	64	4.36	6.7	833.33	7	33	28.28	275

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers
For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Distance from generating station	Domestic service					
				Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	\$ c.	kw-hr.	*	kw-hr.	\$ c.	cts.
Thamesford.....	Nia.	P.V.	136	2,211.84	72,772	111	55	1.66	3.0
Thamesville.....	Nia.	845	207	4,489.52	169,802	207	72	1.92	2.6
Theford.....	Nia.	569	268	2,429.09	46,634	127	31	1.61	5.2
Thorndale.....	Nia.	P.V.	136	1,421.75	28,751	71	35	1.76	4.9
Thornton.....	G. B.	P.V.	58	1,092.52	15,604	49	28	1.97	7.0
Tilbury.....	Nia.	1,992	209	6,475.48	232,163	410	49	1.37	2.7
Toronto Twp....	Nia.	7,914	67	47,354.32	2,675,643	1,600	146	2.58	1.7
Tottenham.....	G. B.	535	82	2,937.00	37,692	120	27	2.07	7.7
Trafalgar Twp., No. 1.....	Nia.	3,834	.....	11,655.63	451,395	229	156	4.29	2.5
*Trafalgar Twp., No. 2.....	Nia.	.....	.....	.....	.....	112	.....	.....	.....
Uxbridge.....	G. B.	1,417	60	6,938.62	187,935	311	53	1.99	3.6
Victoria Harbor.	G. B.	1,382	17	2,523.29	71,175	147	40	1.42	3.5
Wardsville.....	Nia.	224	225	978.78	13,759	48	23	1.66	7.1
Warkworth.....	C. O.	P.V.	17	1,827.93	29,986	87	28	1.73	6.0
Waterdown.....	Nia.	871	57	4,277.71	179,934	212	72	1.71	2.3
Waterford.....	Nia.	1,070	94	6,649.49	400,698	315	107	1.78	1.6
Watford.....	Nia.	1,030	256	6,071.05	163,522	268	50	1.89	3.7
Waubashene....	G. B.	P.V.	12	1,864.11	59,283	112	44	1.39	3.1
Wellesley.....	Nia.	P.V.	111	2,603.62	88,876	118	63	1.87	2.9
Wellington.....	C. O.	832	22	4,386.64	108,374	259	35	1.42	4.0
West Lorne.....	Nia.	795	159	3,147.01	84,575	191	37	1.39	3.7
Wheatley.....	Nia.	738	279	3,955.10	104,637	174	51	1.93	3.7
Williamsburg....	St. L.	P.V.	28	1,186.24	34,381	55	52	1.79	3.4
Winchester.....	St. L.	992	38	5,258.47	240,164	270	75	1.64	2.2
Woodbridge.....	Nia.	717	85	4,640.53	207,501	214	81	1.81	2.2
Woodville.....	G. B.	407	40	1,750.71	42,123	93	38	1.58	4.1
Wyoming.....	Nia.	490	239	2,047.75	36,040	124	25	1.41	5.6
York, East, Twp.	Nia.	25,100	86	136,451.58	5,747,622	7,664	65	1.54	2.3
York, North Twp.	Nia.	9,510	84	59,433.15	1,957,205	1,870	91	2.78	3.0
Zurich.....	Nia.	P.V.	168	2,788.03	72,615	116	53	2.05	3.8

*8 months' operation.

“D”—Concluded

in Ontario Municipalities Served by the Commission
and for Power Service during the Year 1929

VILLAGES AND SUBURBAN AREAS

Commercial light service						Power service				Total number of con- sumers
Revenue	Consump- tion	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average horse- power	Average cost per horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cts.	\$ c.			\$ c.	
1,563.77	49,650	33	125	3.95	3.1	3,275.92	8	106	30.85	152
4,040.11	133,530	78	130	3.96	3.1	1,938.03	7	91	21.29	292
1,438.38	33,944	39	72	3.07	4.2	822.20	3	32	26.00	169
988.06	26,211	29	84	3.16	3.7	1,264.18	1	31	41.04	101
555.99	6,342	17	33	2.89	8.7	364.56	2	17	21.44	68
6,959.33	266,143	125	181	4.75	2.6	13,627.04	15	611	22.28	550
11,461.19	457,857	147	267	6.67	2.5	4,863.57	17	235	20.69	1,764
2,347.56	29,020	56	45	3.69	8.0	1,099.61	40	6	18.33	182
666.02	16,922	2	705	27.75	3.9	944.90	11	55	17.18	242
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	112
3,575.94	87,668	94	77	3.17	4.0	1,546.64	15	82	18.79	420
935.89	28,723	26	82	2.68	3.2	70.13	2	6	11.69	175
1,204.92	14,699	25	53	4.36	8.1	.....	.....	.....	.....	73
1,389.67	22,822	41	46	2.82	6.0	.....	.....	.....	.....	128
723.36	36,893	27	113	2.23	1.9	1,943.03	6	78	24.91	245
1,869.24	123,251	65	160	2.43	1.5	4,806.74	11	229	21.01	391
3,429.51	73,212	79	77	3.61	4.6	2,577.22	5	86	29.96	352
438.35	15,587	18	81	2.28	2.8	449.44	6	28	16.05	136
841.84	24,624	28	73	2.50	3.4	2,686.58	4	84	31.90	150
1,976.58	64,596	61	89	2.75	3.0	2,954.92	8	102	28.88	328
2,050.19	69,975	70	94	2.75	2.9	7,961.50	5	308	26.17	266
2,724.45	67,226	57	94	3.84	4.0	1,024.74	2	39	26.27	233
475.51	11,816	19	51	2.08	4.0	200.35	1	15	13.52	75
2,751.04	100,591	63	137	3.89	2.7	754.66	3	37	20.25	336
1,620.09	59,210	43	109	3.00	2.7	3,359.88	6	154	21.85	263
1,043.00	22,652	27	69	3.21	4.6	1,153.81	3	50	23.51	123
1,318.78	23,522	43	45	2.55	5.6	114.83	1	10	11.48	168
14,715.32	718,083	305	202	4.15	2.0	47,039.81	29	1,899	24.76	7,998
9,577.93	296,684	159	172	5.58	3.2	10,483.81	25	432	24.27	2,054
1,763.37	41,021	47	75	3.26	4.2	52.24	2	2	26.12	165

STATEMENT "E"

Cost of Power to Municipalities and Rates to Consumers for Domestic Service—Commercial Light Service—Power Service in Ontario Municipalities Served by the Hydro-Electric Power Commission for the Year 1929

In Statement "E" are presented the rate schedules applicable to consumers for domestic service, for commercial light service and for power service in each of the co-operating municipalities receiving service at cost through the Hydro-Electric Power Commission.* The cost per horsepower of the power supplied at wholesale by the Commission to the municipality, which is an important factor in determining the rates to consumers, is also stated.

Cost of Power to Municipalities

The figures of the first column in the table represent the total cost for the year of the power supplied by the Commission to the municipality, divided by the number of horsepower supplied. Details respecting these costs are given in the "Cost of Power" tables relating to the several systems, as presented in Section IX, and an explanation of the items making up the cost of power is given in the introduction to that Section.

Rates to Consumers

The Power Commission Act stipulates that "The rates chargeable by any municipal corporation generating or receiving and distributing electrical power or energy shall at all times be subject to the approval and control of the Commission." In accordance with the Act and in pursuance of its fundamental principle of providing service at cost, the Commission requires that accurate cost records be kept in each municipality, and exercises a continuous supervision over the rates charged to consumers.

From the commencement of its operations, the Commission introduced in the municipalities which it serves, scientifically-designed rate schedules for each of the three main classes into which the electrical service is usually divided, namely: residential or domestic service, commercial light service, and power service, and the schedules in use during the past year are presented in the tables of this statement.

*Except townships served as parts of rural power districts, for which consult latter part of Section III.

Domestic Service: Domestic rates apply to electrical service in residences, for all household purposes, including lighting, cooking and the operation of all domestic appliances.

Commercial Light Service: Electrical energy used in stores, offices, churches, schools, public halls and institutions, hotels, public boarding-houses, and in all other premises for commercial purposes, including sign and display lighting, is billed at commercial lighting rates.

Power Service: The rate schedules given for power service in Statement "E" are those governing the supply of power at retail by each of the local municipal utilities. The average amount of power sold, per consumer, under these rates is approximately 40 horsepower—consult Statement "D." The Commission serves certain large power consumers direct on behalf of the various systems of municipalities.

The rates for power service, as given in the tables, are the rates for 24-hour unrestricted power at secondary distribution voltage. For service at primary distribution voltage the rates are usually five per cent lower than those stated. In municipalities where the load conditions and other circumstances permit, lower rates are available for 10-hour power, and for other forms of restricted service. For these classifications, discounts additional to those listed in the table are applicable.

The service charge relates to the connected load or to the maximum demand, as measured by a 10-minute average peak, where a demand meter is installed. The prompt payment discount of 10 per cent on the total monthly bill is given for settlement within 10 days.

Under the tabulation of rates for power service there is a column headed "Basis of rate 130 hours monthly use of demand." This column shows approximately the net annual amount payable for a demand of one horsepower, assuming a monthly use of 130 hours, which includes 30 hours' use each month at the third energy rate. Broadly, the figures in this column serve to indicate approximately the relative cost of power service in the different municipalities listed.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1929, in Ontario Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Acton.....	31.36	33	60	2.3	1.2	0.83	10
Agincourt.....	40.01	33	50	4	2	1.11	10
Ailsa Craig.....	46.94	33	55	3.5	1.5	0.83	10
Alexandria.....	58.48	33	60	6	2	1.39	10
Alliston.....	54.87	33	35	6	2	1.67	10
Alvinston.....	90.60	33	60	6	2	2.22	10
Amherstburg.....	34.81	33	55	3	1.5	0.83	10
Ancaster twp.....	26.99	33	55	3	1.5	0.83	10
Apple Hill.....	63.95	33	60	6	2	1.66	10
Arkona.....	67.77	33	55	5	2	1.66	10
Arthur.....	68.33	33	35	7	2	1.67	10
Athens.....	79.95	33	30	8	2	3.05	10
Aylmer.....	32.00	33	60	2.4	1.2	0.83	10
Ayr.....	33.03	33	60	2.5	1.25	1.11	10
Baden.....	30.41	33	60	2.5	1.25	0.83	10
Barrie.....	29.40	33	60	2	1	0.83	10
Barton twp.....	27.63	33	55	3	1.5	1.11	10
Beachville.....	29.46	33	55	3	1.5	0.83	10
Beaverton.....	32.25	33	60	2.5	1.25	1.11	10
Beeton.....	65.86	33	35	7	2	1.67	10
Belle River.....	34.14	33	55	3.5	1.5	1.11	10
Belleville.....	30.00	33	60	4	2	0.83	10
Blenheim.....	35.27	33	60	2.5	1.25	0.83	10
Bloomfield.....	57.68	33	50	3.5	2	0.83	10
Blyth.....	53.55	33	50	4	2	1.66	10
Bolton.....	41.12	33	50	4	2	1.11	10
Bothwell.....	38.77	33	55	3	1.25	0.83	10
Bradford.....	63.66	33	35	6	2	1.67	10
Brampton.....	27.20	33	60	2	1	0.83	10
Brantford.....	25.38	33	60	2	1	0.83	10
Brantford twp.....	27.45	33	60	2.5	1.25	1.11	10
Brechin.....	43.78	33	40	6	2	1.67	10
Bridgeport.....	32.51	33	55	3	1.5	0.83	10
Brigden.....	66.29	33	60	4	2	1.38	10
Brockville.....	29.47	33	50	2	1	0.83	10
Brussels.....	48.67	33	50	4	2	1.66	10
Burford.....	36.26	33	55	3	1.25	1.11	10
Burgessville.....	37.92	33	50	4	2	1.11	10
Caledonia.....	26.61	33	60	2.5	1.25	0.83	10
Campbellville.....	56.39	33	40	6	2	2.22	10

“E”

Domestic Service—Commercial Light Service—Power Service
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 50 cents	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	2.3	0.6	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	4	1	1.11	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	3.5	0.75	0.83	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	6	1	1.94	10	44.00	1.00	4.9	3.3	0.33	.....	.....	10
5	6	1	1.67	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
7.5	6	1	2.22	10	59.00	1.00	7.1	4.7	0.33	min. 3.00	.....	10
5	3	0.75	0.83	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	3	0.75	0.83	10	31.00	1.00	2.9	1.9	0.33	.....	.....	10
5	6	1	2.22	10	55.00	1.00	6.5	4.4	0.33	.....	.....	10
7.5	5	1	1.66	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	7	1	1.67	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	8	1	3.33	10	60.00	1.00	7.2	4.8	0.33	.....	.....	10
5	2.4	0.6	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	2.5	0.75	1.11	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	2.5	0.75	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	2	1	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	3	1.5	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	3	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	2.5	1.25	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	7	1	1.67	10	43.00	1.00	4.7	3.1	0.33	.....	.....	10
5	3.5	0.75	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	4	2	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	2.5	0.75	0.83	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	3.5	1	0.83	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	4	1	1.66	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	4	1	1.11	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	3	0.75	0.83	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	6	1	1.67	10	43.00	1.00	4.7	3.1	0.33	.....	.....	10
5	2	0.75	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
.....	*3.5	0.35	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
	**1.75											
5	2.5	0.75	1.11	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	6	1	1.67	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	3	0.75	0.83	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	4	0.75	1.38	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	2	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	4	1	1.66	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	3	0.75	1.11	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	4	1	1.11	10	38.00	1.00	4	2.6	0.33	min. 2.22	.....	10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	6	1	2.22	10	58.00	1.00	6.9	4.6	0.33	.....	.....	10

*First 30 hours per kw-hr.
**Next 70 hours per kw-hr.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1929, in Ontario Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Cannington.....	35.39	33	55	3	1.5	1.11	10
Carlton Place.....	29.89	33	45	4.5	2	0.83	10
Cayuga.....	50.70	33	45	5	2	1.66	10
Chatham.....	27.41	33	60	2.5	1.11	0.83	10
Chatsworth.....	38.90	33	45	6	2	1.67	10
Chesley.....	37.88	33	55	3	1.5	1.11	10
Chesterville.....	39.03	33	50	3	1.5	0.83	10
Chippawa.....	23.58	33	60	2.5	1.25	1.11	10
Clifford.....	52.03	33	50	4	2	1.66	10
Clinton.....	35.79	33	60	2.5	1.5	1.11	10
Coldwater.....	31.86	33	55	2.5	1.25	1.11	10
Collingwood.....	36.19	33	55	2.5	1	0.83	10
Comber.....	41.88	33	50	4	2	1.38	10
Cookstown.....	48.48	33	35	7	2	1.67	10
Cottam.....	40.11	33	50	4	2	1.66	10
Courtright.....	66.37	33	50	6	2	2.22	10
Creemore.....	48.04	33	55	3	1.5	0.83	10
Dashwood.....	46.93	33	45	5	2	1.38	10
Delaware.....	31.02	33	50	4	2	1.38	10
Dorchester.....	34.23	33	55	3.5	1.5	0.83	10
Drayton.....	54.43	33	55	3.5	1.5	1.11	10
Dresden.....	46.49	33	60	2.5	1.25	1.11	10
Drumbo.....	41.54	33	50	4	1.5	1.11	10
Dublin.....	52.09	33	50	5	2	1.67	10
Dundalk.....	31.58	33	55	3	1.5	1.11	10
Dundas.....	23.10	33	60	2	1	0.83	10
Dunnville.....	31.17	33	55	3	1.5	0.83	10
Durham.....	29.44	33	50	3	1.5	0.83	10
Dutton.....	36.62	33	60	2.4	1.2	0.83	10
Elmira.....	29.16	33	60	2.5	1.25	0.83	10
Elmvale.....	34.20	33	55	3	1.5	0.83	10
Elmwood.....	42.67	33	60	6	2	1.39	10
Elora.....	32.34	33	55	3	1.5	1.11	10
Embro.....	49.56	33	50	4	2	1.67	10
Erieau.....	52.46	33	45	5	2	1.94	10
Erie Beach.....	71.52	33	50	6	2	1.94	10
Essex.....	31.47	33	55	3	1.5	0.83	10
Etobicoke twp.....	26.24	33	60	2.4	1.2	0.83	10
Exeter.....	36.67	33	55	3	1.5	0.83	10
Fergus.....	31.43	33	55	3	1.5	1.11	10

"E"—Continued

Domestic Service—Commercial Light Service—Power Service
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 50 cents	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	3	1	1.11	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	4.5	1	0.83	10	31.00	1.00	2.9	1.9	0.33	.....	.....	10
5	5	2	1.66	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	2.5	0.8	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	6	1	1.67	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	3	1	1.11	10	36.00	1.00	3.7	2.4	0.33	.....	.....	10
5	3	1	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2.5	0.75	1.11	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	4	1	1.66	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	2.5	1	1.11	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	2.5	1	1.11	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	2.5	1	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	4	1	1.38	10	40.00	1.00	4.3	2.8	0.33	min. 3.33	.....	10
5	7	1	1.67	10	43.00	1.00	4.7	3.1	0.33	.....	.....	10
5	4	1	1.66	10	45.00	1.00	4.9	3.3	0.33	min. 2.22	.....	10
5	6	1	2.22	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	3	1	0.83	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	5	1	1.38	10	50.00	1.00	5.7	3.8	0.33	min. 2.77	.....	10
5	4	1	1.38	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	3.5	1	0.83	10	36.00	1.00	3.7	2.4	0.33	.....	.....	10
5	3.5	0.75	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	2.5	0.75	1.11	10	33.00	1.00	3.2	2.1	0.33	.....	.....	10
5	4	1	1.11	10	44.00	1.00	4.8	3.2	0.33	.....	.....	10
5	5	1	1.67	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2	0.6	0.83	10	19.00	1.00	2	1.4	0.33	.....	25	10
5	3	0.75	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	3	1	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	2.4	0.75	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	2.5	0.75	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	3	1	0.83	10	33.00	1.00	3.2	2.1	0.33	.....	.....	10
5	6	1	1.39	10	48.00	1.00	5.4	3.6	0.33	.....	.....	10
5	3	0.75	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	4	1	1.67	10	42.00	1.00	4.6	3	0.33	min. 2.22	.....	10
5	5	1	1.94	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	6	1	1.94	10	60.00	1.00	7.2	4.8	0.33	.....	.....	10
5	3	0.75	0.83	10	33.00	1.00	3.2	2.1	0.33	.....	.....	10
5	2.4	0.60	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	3	0.75	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	3	1.5	1.11	10	31.00	1.00	2.9	1.9	0.33	.....	.....	10

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1929, in Ontario Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Finch.....	59.44	33	60	8	2	2.22	10
Flesherton.....	37.76	33	55	3.5	2	1.39	10
Fonthill.....	31.09	33	55	3	1.5	1.38	10
Ford City.....		See Windsor E.					
Forest.....	43.67	33	55	3.5	1.75	1.11	10
Forest Hill.....		33	60	2.6	1.3	0.83	10
Fort William.....	21.99	33	50	2.5	1	0.83	10
Galt.....	25.77	33	60	2.5	1.25	0.83	10
Gamebridge.....		33	40	6	2	1.67	10
Georgetown.....	33.67	33	60	2	1	0.83	10
Glencoe.....	51.27	33	50	4	2	1.11	10
Glen Williams.....		33	60	3	1.5	0.83	10
Goderich.....	39.39	33	55	3	1.5	0.83	10
Grand Valley.....	51.56	33	45	5	2	1.39	10
Granton.....	43.61	33	55	3	1.5	1.11	10
Gravenhurst.....	21.34	33	60	2	1	0.83	10
Guelph.....	24.90	33	60	2	1	0.83	10
Hagersville.....	27.96	33	60	2	1	0.83	10
Hamilton.....	22.50	33	60	2	1	0.83	10
Hanover.....	32.10	33	55	3	1.5	0.83	10
Harriston.....	38.09	33	55	3	1.5	1.11	10
Harrow.....	35.31	33	55	3.5	1.5	0.83	10
Havelock.....	41.79	33	50	5	2	0.83	10
Hensall.....	43.59	33	55	3.5	1.5	1.11	10
Hespeler.....	27.13	33	60	2.5	1.25	0.83	10
Highgate.....	40.27	33	50	4	2	1.11	10
Holstein.....	87.31	33	60	9	5	1.67	10
Hornings Mills.....		33	30	8	2	1.67	10
Humberstone.....	26.60	33	55	3	1.5	0.83	10
Huntsville.....	24.30	33	50	3.5	1.5	0.83	10
Ingersoll.....	25.67	33	60	2	1.2	0.83	10
Jarvis.....	34.86	33	50	4	2	1.11	10
Kemptville.....	36.86	33	45	4	2	0.83	10
Kincardine.....	53.97	33	40	5	2	1.39	10
Kingston.....	24.00-36.00	33	60	2.5	1.5	0.83	10
Kingsville.....	35.04	33	60	3	1.25	0.83	10
Kirkfield.....	48.95	33	40	6	2	2.22	10
Kitchener.....	25.39	33	60	2	1.2	0.83	10
Lakefield.....	46.58	33	50	4	2	0.83	10
Lambeth.....	38.33	33	50	4	2	1.38	10

"E"—Continued

Domestic Service—Commercial Light Service—Power Service
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 50 cents	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	8	1	3.05	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	3.5	1	1.39	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	3	0.75	1.38	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	3.5	0.75	1.11	10	42.00	1.00	4.6	3	0.33	.....	.....	10
5	2.6	1.3	0.83	10	25.00	1.00	2	1.4	0.5	max. 2.78	.....	10
5	3	1	0.83	10	19.75	1.00	1.75	1	0.1	.....	.....	10
5	2.5	0.6	0.83	10	20.00	1.00	1.6	1....	0.33	.....	10	10
5	6	1	1.67	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	2	0.5	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	4	1	1.11	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	3	0.75	0.83	10	36.00	1.00	3.7	2.4	0.33	.....	.....	10
5	3	0.75	0.83	10	34.00	1.00	3.4	2.2	0.33	.....	.....	10
5	5	1	1.39	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	3	1	1.11	10	33.00	1.00	3.2	2.1	0.33	.....	.....	10
5	2	1	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	2	0.5	0.83	10	15.00	1.00	1.3	0.8	0.33	.....	25	10
5	2	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
.....	*3.5	0.35	0.83	10	20.00	1.00	1.67	1.11	0.133	.....	10	10
5	**1.75											
5	3	1.5	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	3	1	1.11	10	34.00	1.00	3.4	2.2	0.33	.....	.....	10
5	3.5	1	0.83	10	40.00	1.00	4.3	2.8	0.33	min. 2.22	.....	10
5	5	1	0.83	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	3.5	1	1.11	10	35.00	1.00	3.5	2.3	0.33	min. 2.22	.....	10
5	2.5	0.75	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	4	1	1.11	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	9	5	1.67	10	74.00	1.00	9.3	6.2	0.33	.....	.....	10
5	8	1	1.67	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	3	0.75	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	3.5	1	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2	0.6	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	4	0.75	1.11	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	4	1	1.11	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	5	1	1.39	10	36.00	1.00	3.7	2.4	0.33	.....	.....	10
5	2.5	1	0.83	10	20.00	1.00	1.5	1	0.33	.....	10	10
5	3	0.75	0.83	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	6	1	2.22	10	48.00	1.00	5.4	3.6	0.33	.....	.....	10
5	2	0.75	0.83	10	19.00	1.00	2	1.4	0.33	.....	25	10
5	4	1	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	4	1	1.38	10	38.00	1.00	4	2.6	0.33	.....	.....	10

*First, 30 hours per kw-hr.

**Next 70 hours per kw-hr.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1929, in Ontario Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Lanark.....	48.08	33	45	5	2	1.11	10
Lancaster.....	90.53	33	60	8	2	1.94	10
La Salle.....	33.88	33	50	4	2	1.11	10
Leamington.....	34.09	33	60	3	1.25	0.83	10
Lindsay.....	40.97	33	60	4	2	0.83	10
Listowel.....	33.21	33	60	2.5	1.25	1.11	10
London.....	24.05	33	60	2	1	0.83	10
London twp.....	30.94	33	55	3	1.5	1.11	10
Lucan.....	33.92	33	55	3.5	1.5	1.11	10
Lucknow.....	58.66	33	45	5	2	1.67	10
Lynden.....	36.34	33	55	3	1.5	1.38	10
Markdale.....	32.03	33	55	3	1.5	1.11	10
Markham.....	39.70	33	55	4	1.8	1.11	10
Marmora.....	47.33	33	60	5	2	1.11	10
Martintown.....	45.49	33	60	7	2	1.66	10
Maxville.....	92.26	33	60	7	2	1.66	10
Meaford.....	35.77	33	55	3	1.5	0.83	10
Merlin.....	41.34	33	50	4.5	2	1.11	10
Merritton.....	21.54	33	60	2	1	0.83	10
Midland.....	26.02	33	60	2	1	0.83	10
Milton.....	29.18	33	55	3	1.5	0.83	10
Milverton.....	31.83	33	60	2.5	1.25	1.11	10
Mimico.....	24.17	33	60	2.2	1.2	0.83	10
Mitchell.....	30.34	33	60	2.5	1.5	0.83	10
Moorefield.....	56.76	33	50	4	2	1.11	10
Mount Brydges.....	37.93	33	55	3.5	1.5	1.11	10
Mount Forest.....	35.28	33	55	2.5	1.5	0.83	10
Neustadt.....	85.94	33	60	8	2	1.67	10
Newbury.....	47.69	33	45	5	2	1.38	10
New Hamburg.....	31.61	33	60	2.5	1.5	0.83	10
New Toronto.....	25.82	33	60	2	1.1	0.83	10
Niagara Falls.....	19.40	*3	.....	**2	1	0.83	10
Niagara-on-the-Lake.....	26.33	33	60	2.5	1.25	0.83	10
Nipigon twp.....	25.73	33	45	5	2	1.67	10
Norwich.....	30.79	33	60	2.5	1.25	0.83	10
Norwood.....	35.47	33	50	5	2	1.11	10
Oil Springs.....	40.61	33	50	4	2	1.11	10
Omeme.....	.....	33	60	4	2	1.11	10
Orangeville.....	39.39	33	55	3	1.5	1.11	10
Oshawa.....	33.88	33	40	3.5	2	0.83	10

*Service charge per 100 sq. ft.

**Per kw-hr. for first 3 kw-hr. per 100 sq. ft.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 50 cents	First 100 hrs. per month per kw-hr.	All-additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All-additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	5	1	1.38	10	60.00	1.00	7.2	4.8	0.33	.....	.....	10
5	8	1	2.78	10	69.00	1.00	8.6	5.7	0.33	.....	.....	10
5	4	1	1.11	10	36.00	1.00	3.7	2.4	0.33	.....	.....	10
5	3	0.75	0.83	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	4	1	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2.5	0.75	1.11	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5	2	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	3	0.75	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	3.5	0.75	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	5	1	1.67	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	3	1.5	1.38	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	3	1	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	4	1	1.11	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	5	1	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	7	1	2.22	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	7	1	2.22	10	65.00	1.00	8	5.3	0.33	.....	.....	10
5	3	1	0.83	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	4.5	1	1.11	10	38.00	1.00	4	2.6	0.33	min. 2.22	.....	10
5	2	0.75	0.83	10	20.00	1.00	1.6	1	0.33	max. 2.67	10	10
5	2	1	0.83	10	17.00	1.00	1.7	1.1	0.33	min. 2.06	.....	10
5	3	1.5	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	2.5	0.75	1.11	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	2.2	0.6	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	2.5	0.75	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5	4	1	1.11	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	3.5	0.75	1.11	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	2.5	1	0.83	10	33.00	1.00	3.2	2.1	0.33	.....	.....	10
5	8	2	1.67	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	5	1	1.38	10	53.00	1.00	6.2	4.1	0.33	.....	.....	10
5	2.5	0.75	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	2	0.35	0.83	10	16.00	1.00	1.5	0.9	0.32	.....	25	10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	min. 2.00	.....	10
5	5	2	1.67	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	5	1	1.11	10	40.00	1.00	4	2.6	0.33	.....	.....	10
5	4	1	1.11	10	34.00	1.00	3.4	2.2	0.33	.....	.....	10
5	4	1	1.11	10	37.00	1.00	3.8	2.5	0.33	.....	.....	10
5	3	1.5	0.83	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	3.5	1.5	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1929, in Ontario Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Ottawa.....	11.68	*3	.....	**2	1***		
Otterville.....	36.22	33	55	3	0.5	0.83	10
Owen Sound.....	27.78	33	60	2	1.5	1.11	10
Paisley.....	54.03	33	45	5	1	0.83	10
Palmerston.....	35.64	33	60	2.5	2	1.67	10
					1.25	1.11	10
Paris.....	25.97	33	60	2	1.25	0.83	10
Parkhill.....	56.46	33	50	4	2	1.38	10
Penetang.....	30.39	33	60	2	1	0.83	10
Perth.....	29.22	33	55	3.5	1.75	0.83	10
Peterboro.....	28.29	33	50	2.5	1.25	0.83	10
Petrolia.....	36.53	33	60	2.5	1.25	0.83	10
Picton.....	40.33	33	60	2.5	1.25	0.83	10
Plattsville.....	57.12	33	45	5	2	1.66	10
Point Edward.....	35.36	33	55	3	1.5	0.83	10
Port Arthur.....	21.72	*3	.....	**2	1	0.83	10
Port Colborne.....	27.11	33	60	2.5	1.25	0.83	10
Port Credit.....	29.13	33	60	2.2	1.2	0.83	10
Port Dalhousie.....	25.28	33	60	2.5	1.25	0.83	10
Port Dover.....	39.68	33	50	3	1.5	1.11	10
Port McNicoll.....	29.57	33	50	3.5	1.5	0.83	10
Port Perry.....	44.93	33	50	4	2	1.11	10
Port Rowan.....	76.58	33	60	6	2	1.66	10
Port Stanley.....	36.16	33	55	3	1.5	0.83	10
Prescott.....	28.02	33	60	2	1	0.83	10
Preston.....	25.39	33	60	2.5	1.25	0.83	10
Priceville.....	76.11	33	60	8	2	1.67	10
Princeton.....	49.38	33	45	4	2	1.66	10
Queenston.....	26.63	33	65	3	1.5	1.38	10
Richmond.....	59.38	33	30	8	2	2.22	10
Richmond Hill.....	34.12	33	60	2.6	1.3	to 3.33 0.83	10
Ridgetown.....	34.13	33	60	2.5	1.25	0.83	10
Ripley.....	74.70	33	60	7.5	2	1.67	10
Riverside.....	30.43	33	55	3	1.5	1.11	10
Rockwood.....	39.37	33	60	2.5	1.25	1.11	10
Rodney.....	45.93	33	55	3	1.5	0.83	10

*Service charge per 100 sq. ft.

**Per kw-hr. for first 3 kw-hr. per 100 sq. ft.

*** " " " next 3 " " " " "

“E”—Continued

Domestic Service—Commercial Light Service—Power Service

Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 50 cents	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
.....	†5	0.5	0.83	10	20.00	1.00	1.8	1:2	0.15	.....	15	10
	††2.2											
5	3	1	1.11	10	36.00	1.00	3.7	2.4	0.33	.....		10
5	2	1	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	5	1	1.67	10	55.00	1.00	6.5	4.3	0.33	.....		10
5	2.5	1	1.11	10	28.00	1.00	2.3	1.5	0.33	.....		10
5	2	0.75	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	4	1	1.38	10	48.00	1.00	5.4	3.6	0.33	.....		10
5	2	1	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	3.5	1	0.83	10	27.00	1.00	2.3	1.5	0.33	.....		10
5	2.5	1	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
									0.22			
5	2.5	0.75	0.83	10	29.00	1.00	2.6	1.7	0.33	.....		10
5	2.5	1	0.83	10	34.00	1.00	3.4	2.2	0.33	.....		10
5	5	1	1.66	10	48.00	1.00	5.4	3.6	0.33	min. 2.00		10
5	3	0.75	0.83	10	27.00	1.00	2.3	1.5	0.33	.....		10
5	2	1	0.83	10	19.75	1.00	1.75	1	0.1	.....		10
5	2.5	0.75	0.83	10	30.00	1.00	2.8	1.8	0.33	.....		10
5	2.2	0.75	0.83	10	25.00	1.00	2	1.3	0.33	.....		10
5	2.5	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	3	1	1.11	10	35.00	1.00	3.5	2.3	0.33	.....		10
5	3.5	1	0.83	10	35.00	1.00	3.5	2.3	0.33	.....		10
5	4	1	1.11	10	43.00	1.00	4.7	3.1	0.33	.....		10
5	6	2	1.66	10	60.00	1.00	7.2	4.8	0.33	.....		10
5	3	0.75	0.83	10	37.00	1.00	3.8	2.5	0.33	min. 1.11		10
5	2	1	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	2.5	0.75	0.83	10	19.00	1.00	2	1.4	0.33	.....	25	10
5	8	1	1.67	10	50.00	1.00	5.7	3.8	0.33	.....		10
5	4	1	1.66	10	50.00	1.00	5.7	3.8	0.33	.....		10
5	3	1	1.38	10	25.00	1.00	2	1.3	0.33	.....		10
5	8	1	2.77	10	75.00	1.00	9.5	6.3	0.33	.....		10
5	2.6	0.75	to 4.16 0.83	10	25.00	1.00	2	1.3	0.33	.....		10
5	2.5	0.75	0.83	10	25.00	1.00	2	1.3	0.33	.....		10
5	8	1	1.67	10	60.00	1.00	7.2	4.8	0.33	.....		10
5	3	0.8	1.11	10	30.00	1.00	2.8	1.8	0.33	.....		10
5	2.5	0.75	1.11	10	42.00	1.00	4.6	3.0	0.33	.....		10
5	3	0.75	0.83	10	35.00	1.00	3.5	2.3	0.33	.....		10

†First 30 hours per kw-hr.

††Next 70 hours per kw-hr.

¶Next 260 hours per kw-hr.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1929, in Ontario Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cets	\$ c.	%
Russell.....	65.85	33	60	7	2	1.66	10
St. Catharines.....	21.16	33	30 & 60	2	1	0.83	10
St. Clair Beach.....	34.43	33	55	3.5	1.5	1.66	10
St. George.....	36.15	33	60	2	1	0.83	10
St. Jacobs.....	30.03	33	60	2.5	1.25	1.11	10
St. Marys.....	32.46	33	60	2.5	1.25	1.11	10
St. Thomas.....	25.43	33	60	2	1	0.83	10
Sandwich.....	28.45	33	60	2.5	1	0.83	10
Sarnia.....	30.80	33	60	2.4	1.11	0.83	10
Scarboro twp.....	31.64	33	60	2.6	1.3	0.83	10
Seaforth.....	32.91	33	60	2.5	1.25	0.83	10
Shelburne.....	36.49	33	50	3.5	1.75	1.11	10
Simcoe.....	30.18	33	60	2	1	0.83	10
Smiths Falls.....	25.27	33	50	3.5	1.75	0.83	10
Springfield.....	41.70	33	55	3.5	1.75	1.11	10
Stamford twp.....	19.97	33	60	2.25	1.2	0.83	10
Stayner.....	38.02	33	55	2.5	1.25	0.83	10
Stouffville.....	42.16	33	55	4	1.5	1.11	10
Stratford.....	27.44	33	60	2.1	1.1	0.83	10
Strathroy.....	32.16	33	60	2.5	1.25	0.83	10
Sunderland.....	49.99	33	45	5	2	1.39	10
Sutton.....	49.97	33	50	4.5	2	1.11	10
Tara.....	69.63	33	35	7	2	1.67	10
Tavistock.....	33.89	33	60	2.5	1.25	0.83	10
Tecumseh.....	33.20	33	55	3.5	1.5	1.11	10
Teeswater.....	54.08	33	60	6	3	1.67	10
Thamesford.....	34.88	33	55	3	1.5	1.11	10
Thamesville.....	35.39	33	55	3	1.25	0.83	10
Thedford.....	60.98	33	50	5	2	1.38	10
Thorndale.....	58.34	33	50	4	2	1.38	10
Thornton.....	65.50	33	60	8	2	1.67	10
Thorold.....	22.50	33	60	2	1	0.83	10
Tilbury.....	35.25	33	60	2.5	1.25	0.83	10
Tillsonburg.....	30.39	33	60	2	1.2	0.83	10
Toronto.....	24.17	*3	.....	**2	1	0.83	10

*Service charge per 100 sq. ft.

**Per kw-hr. for first 3 kw-hr., per 100 sq. ft.

“E”—Continued

Domestic Service—Commercial Light Service—Power Service
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 50 cents	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	7	2	2.22	10	56.00	1.00	6.6	4.4	0.33	\$ c.		
.....	3.5	0.35	0.83	10	17.00	1.00	1.67	1.13	0.16	.....	25	10
	1.75									.....	
5	3.5	1	1.66	10	40.00	1.00	4.3	2.8	0.33	.....		10
5	2	0.75	0.83	10	32.00	1.00	3.1	2	0.33	.....		10
5	2.5	0.75	1.11	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	2.5	0.75	1.11	10	26.00	1.00	2.2	1.4	0.33	.....		10
5	2	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	2.5	0.8	0.83	10	25.00	1.00	2	1.3	0.33	.....		10
5	2.4	0.6	0.83	10	27.00	1.00	2.3	1.5	0.33	.....		10
5	2.6	0.6	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2.5	0.75	0.83	10	29.00	1.00	2.6	1.7	0.33	.....		10
5	3.5	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....		10
5	2	0.75	0.83	10	25.00	1.00	2	1.3	0.33	.....		10
5	3.5	1	0.83	10	30.00	1.00	2.8	1.8	0.33	.....		10
5	3.5	1	1.11	10	45.00	1.00	4.9	3.3	0.33	min. 2.22		10
5	2.25	0.5	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	2.5	1	0.83	10	35.00	1.00	3.5	2.3	0.33	.....		10
5	4	1	1.11	10	45.00	1.00	4.9	3.3	0.33	.....		10
5	2.1	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	2.5	0.75	0.83	10	27.00	1.00	2.3	1.5	0.33	.....		10
5	5	1	1.39	10	52.00	1.00	6	4	0.33	.....		10
5	4.5	1	1.11	10	50.00	1.00	5.7	3.8	0.33	.....		10
5	7	1	1.67	10	58.00	1.00	6.9	4.6	0.33	.....		10
5	2.5	0.75	0.83	10	25.00	1.00	2	1.3	0.33	.....		10
5	3.5	0.8	1.11	10	35.00	1.00	3.5	2.3	0.33	.....		10
5	6	3	1.67	10	40.00	1.00	4.3	2.8	0.33	.....		10
5	3	0.75	1.11	10	32.00	1.00	3.1	2	0.33	.....		10
5	3	0.75	0.83	10	33.00	1.00	3.2	2.1	0.33	.....		10
5	5	1	1.38	10	55.00	1.00	6.5	4.3	0.33	.....		10
5	4	1	1.38	10	48.00	1.00	5.4	3.6	0.33	min. 3.33		10
5	8	1	1.67	10	58.00	1.00	6.9	4.6	0.33	.....		10
5	2	0.5	0.83	10	18.00	1.00	1.9	1.3	\$0.33†	.....	25	10
5	2.5	0.75	0.83	10	24.00	1.00	2.3	1.5	\$0.295	.....	10	10
5	2	0.6	0.83	10	25.00	1.00	2	1.3	0.33	.....		10
.....	R 4 & 2	1	0.83	10	.....	A.C. ¶ D.C. x	1.5 2.5	0.75 1.25	0.40 0.60	.....		10

†Next 260 hours, per kw-hr.

RFirst 70 hours, per kw-hr., 4 cents.

Next 70 hours, per kw-hr., 2 cents.

†First 30 hours, per kw-hr.

††Next 70 hours, per kw-hr.

¶A.C. service charge, \$1.25 per h.p. for first 10 h.p., plus \$1.00 per h.p. for additional h.p.

xD.C. service charge, \$1.35 per h.p. for first 10 h.p., plus \$1.00 per h.p. for additional h.p.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1929, in Ontario Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Toronto twp.....	28.32	33	55	3	1.5	1.11	10
Tottenham.....	84.39	33	30	8	2	1.67	10
Trafalgar twp., Area No. 1.....		55	60	3.5	2	1.11	10
Trafalgar twp., Area No. 2.....		80-41	55	3.5	2	1.67	10
Uxbridge.....	47.46	33	50	4	2	1.11	10
Victoria Harbor.....	36.17	33	55	3	1.5	1.11	10
Walkerville.....	25.97	33	60	2.5	1	0.83	10
Wallaceburg.....	33.18	33	60	2.4	1.11	0.83	10
Wardsville.....	56.96	33	40	6	2	1.66	10
Warkworth.....	46.02	33	50	5	2	1.55	10
Waterdown.....	27.98	33	60	2.5	1.25	0.83	10
Waterford.....	30.65	33	60	2	1	0.83	10
Waterloo.....	25.82	33	60	2	1.25	0.83	10
Watford.....	48.58	33	50	4	2	1.11	10
Waubashene.....	35.68	33	55	3	1.5	1.11	10
Welland.....	21.52	33	60	2.2	1.1	0.83	10
Wellesley.....	41.68	33	50	3.5	1.5	1.11	10
Wellington.....	45.15	33	50	3	1.5	0.83	10
West Lorne.....	40.64	33	55	3	2	1.11	10
Weston.....	24.54	33	60	2	1	0.83	10
Wheatley.....	43.03	33	50	4	2	1.39	10
Whitby.....	34.55	33	60	3	1.25	0.94	20
Williamsburg.....	39.73	33	60	3	2	1.39	10
Winchester.....	38.24	33	60	2.5	1.25	0.83	10
Windsor.....	25.84	33	60	2.5	1	0.83	10
Windsor E.....	28.51	33	60	2.5	1	0.83	10
Wingham.....	53.74	33	40	5	2	1.11	10
Woodbridge.....	31.15	33	60	2.5	1.25	0.83	10
Woodstock.....	24.42	33	60	2	1.2	0.83	10
Woodville.....	46.64	33	50	4	2	1.11	10
Wyoming.....	51.22	33	50	4.5	2	1.11	10
York twp.....		33	60	2.6	1.3	0.83	10
York E. twp.....	30.82	33	60	2.2	1.2	0.83	10
York N. twp.....	29.15	33	55	3.5	1.5	1.11	10
Zurich.....	55.23	33	50	4	2	1.38	10

“E”—Concluded

Domestic Service—Commercial Light Service—Power Service
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 50 cents	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	3	0.75	1.11	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	8	2	1.67	10	58.00	1.00	6.9	4.6	0.33	.....	.....	10
.....	**4	1	1.11	10	37.00	1.00	3.5	2.3	1.0	.....	.....	10
10	3.5	2	1.67	10	38.00	1.00	3.5	2.3	1.5	.....	.....	10
5	4	1	1.11	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	3	1	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	2.5	0.8	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	2.4	0.6	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	6	1	1.66	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	5	1	1.55	10	44.50	1.00	4.9	3.3	0.33	.....	.....	10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	2	0.75	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	2.25	1	0.83	10	19.00	1.00	2	1.4	0.33	.....	25	10
5	4	1	1.11	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	3	1	1.11	10	33.00	1.00	3.2	2.1	0.33	.....	.....	10
5	2.2	0.6	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5	3.5	0.75	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	3	1	0.83	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	3	0.75	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2	0.6	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	4	1	1.39	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5.6	3	1	0.94	20	25.00	1.00	2	1.3	0.33	.....	.....	10
5	3	2	1.39	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	2.5	1	0.83	10	50.00	1.00	5.7	3.8	0.33	min. 2.22	.....	10
5	2.5	0.8	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	2.5	0.8	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	5	1	1.11	10	41.00	1.00	4.4	2.9	0.33	.....	.....	10
5	2.5	0.75	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	2	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	4	1	1.11	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	4.5	1	1.11	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	2.6	1.3	0.83	10	23.00	1.00	2	1.4	0.5	Max. 2.78	.....	10
5	2.2	0.6	0.83	10	25.00	1.00	2.1	1.4	0.33	.....	10	10
5	3.5	0.75	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	4	1	1.38	10	50.00	1.00	5.7	3.8	0.33	min. 2.77	.....	10

*First 30 hours, per kw-hr.
**Next 70 hours, per kw-hr.

APPENDIX I

ACT

CHAPTER 20

An Act to amend The Power Commission Act.

Assented to 28th March, 1929.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

1. This Act may be cited as *The Power Commission Act, 1929*. Short title.
2. Subsection 2 of section 6 of *The Power Commission Act* is amended by adding thereto the following clause: Rev. Stat.,
c. 57, s. 6,
subs. 2,
amended.
 - (a) Expenditure heretofore or hereafter incurred by the Commission, Certain
expenditures
to be
included as
part of cost
of supplying
power.
 - (i) for works or services in carrying out the directions of the Lieutenant-Governor in Council or for which the Commission has had other proper authority and which have not already been included in the cost of power to municipalities under contract with the Commission but which, in the opinion of the Commission, have proved or may ultimately prove beneficial to municipal corporations under contract with the Commission for a supply of power, or to municipal corporations which may from time to time thereafter enter into such contracts;
 - (ii) deemed necessary or desirable by the Commission in the interests of municipal corporations then or that may thereafter be under contract with the Commission for a supply of power, in carrying on, promoting

or extending the operations of the Commission in connection with the generation, distribution or supply of power or for any work or service deemed by the Commission incidental thereto,

may be included by the Commission as part of the cost of supplying electrical power or energy to any of such corporations, and shall be apportioned by the Commission as provided in this section and section 56.

Rev. Stat.,
c. 57, s. 15,
amended.

3. Section 15 of *The Power Commission Act* is amended by striking out the words "or acquired" in the fourth line and inserting in lieu thereof the words "acquired or performed," and by adding the following clause:

"Works,"
meaning of.

- (a) For the purposes of this section "works" shall, in addition to the meaning given to it in section 2, mean and include preliminary reports, surveys, investigations, engineering, accounting or organization work or service, or any other work or service in connection with or incidental to any proposed construction or development.

Rev. Stat.,
c. 57, s. 20,
subss. 3 to 8,
repealed.

4. Subsections 3 to 8 inclusive of section 20 of *The Power Commission Act* are repealed and the following substituted therefor:

Apportion-
ment of
costs of
works
heretofore
constructed.

- (3) Where under an agreement or any instrument purporting to be an agreement with a municipal corporation the Commission has heretofore constructed works or improvements upon any lake, river, stream or other body of water and it appears to the Lieutenant-Governor in Council that such works or improvements are or may be of benefit to, or increase the value of the land of any individual or corporation other than such municipal corporation, the Lieutenant-Governor in Council may direct a judge of the Supreme Court, or a judge of a county or district court, to inquire into and determine the proportion in which such municipal corporation and any such individual or other corporation are or may be respectively benefited or the value of the land of any of them increased by such works or improvements, and the judge may make an order fixing the proportion in which the cost of such works or improvements shall be borne by the municipal corporation party to such agreement or instrument, and by any such individual or corporation and by the Province respectively, and may fix such proportion without regard to the terms of such agreement or instrument.

When costs
not to be
awarded.

- (4) No costs shall be awarded to any party appearing before the judge or otherwise interested in the inquiry.

Fees and
expenses.

- (5) The judge shall be paid such fees and expenses as shall be fixed by the Lieutenant-Governor in Council.

- (6) For the purposes of this section the cost of the works or improvements shall be deemed to include all expenditures, charges and expenses as fixed by the Commission made or incurred by it in respect of the construction of such works or improvements, extensions and additions thereto, interest charges, operating expenses, repairs and maintenance, down to the date of the order of the judge, the fees and expenses of the judge and the expenses incurred by the Commission in connection with the inquiry. Cost of works, etc., what to include.
- (7) Any person, or any municipal or other corporation affected by the order made under the authority of subsection 2 or subsection 3 may, with the consent in writing of the Commission, appeal from such order to the Appellate Division. Appeal.
- (8).—(a) The Commission may establish a sinking fund to be provided by the parties in the proportions directed by the order of the judge sufficient to discharge and pay off the cost of such works or improvements and such of the capital costs as may be incurred from time to time by the Commission after the date of the order of the judge within such periods as the Commission may fix having regard to the life of such works or improvements and not exceeding forty years. Sinking fund.
- (b) The Commission shall subsequent to the order of the judge annually fix and determine the costs, charges or expenses incurred by it from time to time in the operation, maintenance, repair and renewal of such works and shall apportion and charge the same against the parties in the proportions fixed by the order of the judge together with the payments in respect of sinking fund hereinbefore mentioned and the amounts so charged shall be payable on demand recoverable in the manner hereinafter provided. Annual apportionment of costs by Commission.
- (9) In fixing the amounts so payable the Commission shall give credit for any amount theretofore contributed to the cost of such works and improvements by a municipal or other corporation or by any individual. Allowance for previous expenditure.
- (10) The amount so found payable by a municipal corporation shall be recoverable in the like manner as in the case of a charge for any other service rendered by the Commission to a municipal corporation and in the case of any other corporation or of an individual the amount so found due shall constitute a debt due to the Commission and shall be recoverable in any court of competent jurisdiction from the owners from time to time of the lands so found by the order of the judge to be benefited by such works or improvements and shall constitute a lien or charge upon such lands enforceable in the same manner and by the same proceedings as nearly as may be as in the case of a charge in favour of the Crown. Recovery of amount assessed.

Share of
Province,
how
payable.

- (11) Where a proportion of the cost of such works and improvements is to be borne by the Province the amount due from time to time in respect thereof shall be payable out of any moneys appropriated by the Legislature for that purpose.

How far
order to be
final and
binding.

- (12) When the proportions in which the cost of such works or improvements is to be borne have been fixed by order of the judge or of the Appellate Division such order shall be final and binding unless and until it shall appear to the Commission that owing to change of circumstances or conditions in respect of such works or improvements it is equitable that there should be a readjustment of the proportions theretofore fixed by the order of the judge and in that case upon the application of any person liable to contribute to the cost of such works or improvements, made with the consent in writing of the Commission, the judge may make further inquiry and may readjust such proportions to be thereafter applied in such manner as he may deem just and equitable subject to appeal as hereinbefore provided.

Rev. Stat.,
c. 57, s. 40,
subs. 3,
amended.

5. Subsection 3 of section 40 of *The Power Commission Act* is amended by inserting the words "or other" before the word "service" in clause (c), and is further amended by inserting the words "generation, purchase," before the word "transmission" in the eighth line; by adding after the words "power purposes" in the ninth line the following words, "or for the manufacture, procuring, producing, supply or use of any other public utility"; by striking out the words "which has entered into a contract with the Commission for the supply of electrical power or energy" in the tenth, eleventh and twelfth lines and substituting therefore the words "or by any other corporation or any person"; by striking out the words "or commission" in the thirteenth line and substituting therefor the words "commission or person" so that the subsection will now read as follows:

Doing
work for
contracting
municipalities, etc.

- (3) The Commission may,—

- (a) undertake and carry out the preparation of plans, specifications and estimates for, and the construction, erection, installation and putting down of, any plant, machinery, and other things;
- (b) purchase supplies, wires, poles, and other things;
- (c) render engineering or other service,

for the generation, purchase, transmission, distribution, supply or use of electrical power or energy for light, heat or power purposes, or for the manufacture, procuring, producing, supply or use of any other public utility, by a municipal corporation or commission, or by any other corporation or any person; and the Commission may charge and collect from such corporation, commission or person the cost of any work done or service rendered by the Commission under this subsection.

6.—(1) Subsection 4 of section 64 of *The Power Commission Act* is amended by adding thereto the following words: Rev. Stat., c. 57, s. 64, subs. 4, amended.

In the event of the enlarging of such area it shall be necessary only to have a petition from a majority of the resident freeholders in the new area; in the event of alteration of the boundaries of any such area the council without petition may from time to time by by-law alter the said boundaries so long as such alteration does not alter by more than ten per cent. the amount of the assessment upon which the special rate is raised to meet the cost as mentioned in subsections 5 and 6 of this section; in the event of any alteration reducing by more than ten per cent. the amount of such assessment the petition must have a majority of the resident freeholders in the area remaining subject to such assessment. Where area is enlarged.

(2) Subsection 7 of the said section 64 is amended by adding after the word "may" in the first line the words "from time to time" and by adding after the word "that" in the second line the words "the whole or". Rev. Stat., c. 57, s. 64, subs. 7, amended.

(3) The said section 64 is further amended by adding thereto the following subsections: Rev. Stat., c. 57, s. 64, amended.

(8) Notwithstanding that any street lighting in a township may have been undertaken as a local improvement under *The Local Improvement Act*, the council upon the procedure and for the purposes set out in this Part may enter into a contract with the Commission for a new area or enlarge any existing area and include in any such area the whole or any part of the lands specially assessed for the local improvement; thereafter all moneys required to meet the costs incurred by the corporation in respect to street lighting in the area shall be raised, levied and collected in the manner prescribed in this Part and only that part of the cost under *The Local Improvement Act* which is specially assessed on the lands not included in such area shall be collected under that Act; Street lighting. Rev. Stat., c. 235.

(9) Whenever the corporation shall have entered into contract with the Commission as provided in subsection 3 of this section it shall not be necessary for the corporation to enter into a separate contract with the Commission for any other area in the township, but the corporation may pass a by-law making such contract applicable to any such other area; thereupon such contract shall apply to such other area as fully as if such area had been included in the original petition for such contract; Contract, application of. Rev. Stat., c. 235.

(10) The council of the corporation may from time to time by by-law without the assent of the electors and without any petition as mentioned in this Part incorporate any such area with any other adjoining area in the township and the contract with the Commission for the area with which the other area is incorporated shall apply to the whole area; Extension of contract to adjoining areas.

- (11) Wherever any such area is wholly or partly within an area in the township set apart by the council under section 49, the contract with the approval of the Commission may be made with The Hydro-Electric Power Commission of the said area under section 49.

Rev. Stat.,
c. 57, s. 73,
subs. 1,
amended.

Lighting of
highways.

7.—(1) Subsection 1 of section 73 of *The Power Commission Act* is amended by striking out the words “under the procedure provided for in section 63 and subsections 1, 2 and 3 of section 64” in the second, third and fourth lines and substituting therefor the following words, “under procedure similar to that provided in Part III of this Act,” and is further amended by adding thereto the following words, “and the by-law of the corporation need not provide for the issue of debentures of the corporation to meet the cost of construction and installation of the works necessary for the distribution of the electrical power or energy.”

Rev. Stat.,
c. 57, s. 73,
subs. 6,
(1928,
c. 19, s. 5),
amended.

(2) Subsection 6 of the said section 73 as enacted by section 5 of *The Power Commission Act, 1928*, is further amended by adding after the word “may” in the first line the words “from time to time,” and by adding after the word “that” in the second line the words “the whole or”.

Rev. Stat.,
c. 57, s. 73,
amended.

(3) The said section 73 is further amended by adding thereto the following subsections:

Lighting
highways
in local
areas.

- (7) Whenever the corporation shall under Part III of this Act have entered into a contract with the Commission for the supply of electrical power or energy for the purposes required by the petitioners in any area, the corporation without a petition or any of the other preliminary proceedings provided in the said Part III may by by-law enter into a contract with the Commission for lighting the highways in the said area under this Part and thereafter all the provisions of this Part shall apply to the said area and the lighting of the highways therein in lieu of the provisions of the said Part III.

Application
of subss. 8 to
10 of s. 64.

- (8) Subsections 8, 9 and 10 of section 64 shall apply *mutatis mutandis* to any contract and to any area under this section.

Rev. Stat.,
s. 57, s. 98,
subs. 1, cl. a,
amended.

8.—(1) The clause lettered *a* in subsection 1 of section 98 of *The Power Commission Act* is amended by adding after the word “company” in the third line the word “firm”.

Rev. Stat.,
c. 57, s. 98,
subs. 1, cl. b,
amended.

(2) The clause lettered *b* in subsection 1 of the said section 98 is amended by striking out the words “distribution or supplying” in the fourth and fifth lines and substituting therefor the words “distribution, supplying or use”.

Rev. Stat.,
c. 57, s. 98,
amended.

(3) The said section 98 is further amended by adding thereto the following subsection:

Application
of section.

- (6) Notwithstanding anything herein contained, this section shall not apply to an officer or employee of any such municipal commission who patents a device, appliance, machine, pro-

cess or article of his own invention with the knowledge and permission of such municipal commission and the Commission.

9. This Act shall come into force on the day upon which it receives the Royal Assent. Commencement of Act.

CHAPTER 21

An Act to validate certain By-laws respecting The Hydro-Electric Power Commission of Ontario.

Assented to 28th March, 1929.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

1. This Act may be cited as *The Power Commission Act, 1929* Short title.
(No. 2).

2. By-law number 40-1928 of the corporation of the city of Kingston; by-law number 1669 of the corporation of the city of Sarnia; by-law number 1820 of the corporation of the town of Lindsay; by-law number 338 of the corporation of the village of Athens; by-law number 54-1927 of the corporation of the village of Finch; by-law number 302 of the corporation of the village of Richmond; by-law number 222A of the corporation of the police village of Bridgeport; by-law number 338 of the corporation of the township of Adelaide; by-laws numbers 504 and 512 of the corporation of the township of Alnwick; by-law number 356 of the corporation of the township of Amabel; by-law number 187 of the corporation of the township of Asphodel; by-law number 20 of the corporation of the township of Blanshard; by-law number 2030 of the corporation of the township of Brantford; by-law number A8 of the corporation of the township of Brighton; by-law number 592 of the corporation of the township of Camden East; by-law number 680 of the corporation of the township of Cavan; by-law number 1244 of the corporation of the township of Chatham; by-law number 4-1928 of the corporation of the township of Eramosa; by-law number 10 of the corporation of the township of Ernesttown; by-laws numbers 593 and 604 of the corporation of the township of Euphemia; by-law number 8 of the corporation of the township of Finch; by-law number 7 of the corporation of the township of Fredericksburg North; by-laws numbers 481, 482 and 483 of the corporation of the township of Gainsboro; by-law number 11 of the corporation of the township of Garafraxa West; by-law number 9-1928 of the corporation of the township of Goderich; by-law number 595 of the corporation of the township of Gosfield North; by-law number 17-1928 of the corporation of the township of Grey; by-law By-laws confirmed.

number 615 of the corporation of the township of Gwillimbury West; by-law number 12 of the corporation of the township of Howick; by-laws numbers 6-1928 and 11-1928 of the corporation of the township of Hullett; by-law number 5-1928 of the corporation of the township of Keppel; by-law number 51 of the corporation of the township of Metcalfe; by-law number 403 of the corporation of the township of Montague; by-law number 641 of the corporation of the township of Mornington; by-law number 673 of the corporation of the township of Mulmur; by-law number 18 of the corporation of the township of Osnabruck; by-law number 833 of the corporation of the township of Percy; by-law number 664 of the corporation of the township of Rear Escott and Yonge; by-law number 82 of the corporation of the township of Scott; by-law number 305 of the corporation of the township of Seneca; by-law number 239 of 1928 of the corporation of the township of Stamford; by-law number 8 of the corporation of the township of Stanley; by-law number 3-1928 of the corporation of the township of St. Vincent; by-law number 795 of the corporation of the township of Thurlow; by-law number 461 of the corporation of the township of Tilbury West; by-laws numbers 445 and 446 of the corporation of the township of Trafalgar; by-law number 24 of the corporation of the township of Turnbury; by-law number 779 of the corporation of the township of Tyendinaga; by-law number 1192 of the corporation of the township of Vaughan; by-law number 727 of the corporation of the township of Vespra; by-law number 8-1928 of the corporation of the township of Wawanosh East; by-law number 5-1928 of the corporation of the township of Wawanosh West; by-law number 1015 of the corporation of the township of Whitby East; by-law number 449 of the corporation of the township of Wolford; by-law number 359 of the corporation of the township of Woodhouse; by-law number 8 of 1926 of the corporation of the township of Zone; and all debentures issued or to be issued or purporting to be issued under any of the said by-laws which authorize the issue of debentures are confirmed and declared to be legal, valid and binding upon such corporations and the ratepayers thereof respectively and shall not be open to question upon any ground whatsoever notwithstanding the requirements of *The Power Commission Act* or the amendments thereto or any other general or special Act of this Legislature.

Rev. Stat.,
c. 57.

By-laws
776 and 781
town of
Southamp-
ton
confirmed.

3.—(1) By-laws numbers 776 and 781 of the corporation of the town of Southampton and all debentures issued or to be issued or purporting to be issued under the said by-law number 781 are confirmed and declared to be legal, valid and binding upon the said corporation and the ratepayers thereof respectively, and shall not be open to question upon any ground whatsoever, and the said corporation may enter into a contract with the Commission for a supply of electrical power or energy and such contract shall be legal, valid and binding upon the said corporation and the ratepayers thereof respectively and shall not be open to question upon any ground whatsoever, notwithstanding the requirements of *The Power Commission Act* or the amendments thereto or any other general or special Act of this Legislature, and notwithstanding any action or proceeding heretofore

Rev. Stat.,
c. 57.

commenced or now pending or any judgment or other decision which may be rendered therein; provided nevertheless that the costs in any such action or proceeding shall be awarded and taxed and payable as if this section had not been enacted.

(2) This section shall come into force on a day to be named by the Lieutenant-Governor by his proclamation. Commence-
ment of
section 3.

4. Save as herein otherwise provided this Act shall come into force on the day upon which it receives the Royal Assent. Commence-
ment of Act.

CHAPTER 22

The Power Commission and Companies Transfer Act, 1929.

Assented to 28th March, 1929.

WHEREAS by *The Power Commission and Companies Transfer Act, 1924*, The Electrical Development Company of Ontario Limited, The Hydro-Electric Power Commission of Ontario (therein and hereinafter called "the Commission"), National Trust Company Limited (hereinafter called "the Trustee"), the Toronto Power Company Limited and His Majesty the King, represented by the Lieutenant-Governor of the Province of Ontario acting by the Honourable G. Howard Ferguson, Prime Minister of the said Province, were authorized and empowered to execute the agreement set out in the schedule to the said Act, hereinafter referred to as the agreement of the 25th of March, 1924, and it was enacted that upon the execution and delivery of the said agreement the same should be legal, valid and binding upon the parties thereto and upon the *cestuis que trustent* under certain indentures of mortgage recited in the said agreement, including the mortgage dated the 1st of March, 1903, in the same manner and to the same extent as if the terms of the said agreement had been set out and enacted in the body of the said Act, and that thereupon all the properties, rights, assets and franchises of The Electrical Development Company of Ontario Limited should be vested in the Commission but subject to the terms, covenants, agreements, provisos and conditions referred to or set out in the said agreement and subject to the said mortgage of the 1st day of March, 1903, and to the bonds secured thereby and to all the rights by the said mortgage and the said bonds reserved and subject to the due observance, fulfilment and performance by the Commission of all the covenants, agreements, provisos and conditions in the said indenture to be kept, observed and performed by the said The Electrical Development Company of Ontario Limited; and whereas doubts have arisen as to the right of the Commission to require the Trustee under the said mortgage to grant releases of properties and as to the disposition of the considerations received on the sale or other disposition of properties comprised in the mortgaged premises;

Preamble.

Therefore, His Majesty, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

Short title.

1. This Act may be cited as *The Power Commission and Companies Transfer Act, 1929.*

Conditions of release of certain properties from trust mortgage.

2. In addition to all other powers possessed by it, the Trustee under the said mortgage of the 1st of March, 1903, has since the date of the said agreement of the 25th of March, 1924, and now has, and shall have while any of the bonds secured by the said mortgage remain outstanding and unpaid, power to concur with the Commission in the disposition of any property, real or personal, comprised in the mortgaged premises, and the Trustee shall be entitled, upon the request of the Commission and upon receipt by the Trustee of the consideration to be received on any such sale or other disposition, to release any property from the said mortgage which shall be sold or disposed of for a fair consideration by the Commission, including property expropriated or which may be sold in anticipation of expropriation or after the commencement of expropriation proceedings, but prior to the compensation therefor being fixed pursuant to the authority under which such expropriation is being or is about to be carried out, and thereafter the said consideration shall be paid or transferred by the Trustee to the Commission upon one of the following conditions being complied with:

- (a) Other property acquired or constructed by the Commission since the 25th day of March, 1924, equal in value to the property released, consisting of freehold or leasehold lands or of buildings, improvements, works, plant, machinery or apparatus upon or to be used in connection with property forming part of the mortgaged premises, is substituted for the property released; and which property so substituted may include the whole or any part of the property received as the consideration or part consideration for the property released; or,
- (b) The amount of such consideration or the part thereof so paid to the Commission is received by the Commission for the purpose of making expenditures or for the purpose of recouping the Commission for expenditures made by it on capital account since the 25th day of March, 1924, on buildings, improvements, works, plant, machinery or apparatus upon or to be used in connection with property forming part of the mortgaged premises and which is under or will be brought under the mortgage.

Non-compliance with conditions.

3. If within one year from the receipt of such consideration by the Trustee neither of the conditions mentioned in the last preceding paragraph hereof shall have been complied with, then the consideration if and to the extent consisting of cash shall be added to the sinking fund and applied with the next instalment of sinking fund

moneys and as an addition thereto in the manner in the said mortgage provided for the application of sinking fund moneys, and if and to the extent consisting of property other than cash shall be held by the Trustee as part of the mortgaged premises.

4. The substitution of property or the bringing of property under the mortgage pursuant to the foregoing provisions hereof shall be effected by the Commission delivering to the Trustee a certificate under its corporate seal, executed by the chairman and secretary, containing a description of the property to be substituted or brought under the mortgage, whereupon, or in the case of properties to be erected or acquired, then upon the same coming into being or being so acquired, such property so described shall be and become subject to a first mortgage in favour of the Trustee as part of the mortgaged premises under the said mortgage and subject to the lien and charge thereof.

Mode of
effecting
substitution
of property.

5. The Trustee shall be entitled to rely upon a certificate under the corporate seal of the Commission, signed by the chairman and secretary or by the chief accountant, as to the value of any property released or substituted or brought under the mortgage and as to the amount of any expenditures made or proposed to be made and as to the consideration received for any property released, and in the case of moneys paid to the Commission for the purpose of making expenditures that such expenditures will be made.

Certifica-
tion of
value of
substituted
property.

6. The said agreement of the 25th of March, 1924, is hereby confirmed and declared to be legal, valid and binding upon the same parties and to the same extent as provided for in *The Power Commission and Companies Transfer Act, 1924*, and as if the foregoing provisions hereof were set out in the said mortgage of the 1st of March, 1903.

Confirma-
tion of
agreement
of 25th
March, 1924.

CHAPTER 55

The Hydro-Electric Railway Act, 1929.

Assented to 28th March, 1929.

1. This Act may be cited as *The Hydro-Electric Railway Act, 1929*.

Short title.

2. The Hydro-Electric Power Commission of Ontario may, as part of the Sandwich, Windsor and Amherstburg Railway acquired and operated by the Hydro-Electric Power Commission of Ontario for certain municipal corporations under the agreement confirmed by section 8 of *The Hydro-Electric Railway Act, 1920*, and by way of extensions, improvements, additional works or equipment therefor, and either as principal trustee, agent or otherwise, lease, obtain running rights over, purchase or otherwise acquire, equip, maintain

Powers of
Commission
in operating
Sandwich,
Windsor and
Amherstburg
Railway.

and operate motor busses, motor coaches and bus lines and any property, rights, franchises or privileges in connection therewith wherever it may appear to the Commission advantageous and profitable from time to time and whether or not within the districts in which said municipal corporations are situate, and may from time to time, lease, sell, mortgage, pledge or otherwise dispose of the same or any part thereof upon such terms as to it may appear desirable, and may enter into any joint ownership, joint operating or joint traffic arrangement with, or any arrangement for sharing of profits, co-operation, joint adventure, reciprocal concession or otherwise with, and take part in the management, supervision or control of the business or operations of any other person, firm, company, corporation, board, commission or undertaking in respect to the ownership, operation, equipment and maintenance of a motor coach transportation service upon such terms and conditions as to the Commission may seem desirable; and the Commission may procure itself to be licensed, registered and recognized in any foreign country or jurisdiction and may designate parties therein according to the laws thereof to represent the Commission and may apply for, promote and obtain from the Dominion of Canada or any other authority, whether dominion, provincial or foreign, and including subordinate and municipal authorities, any statute, ordinance, order, license, franchise, regulation or other authorization or enactment which may seem desirable to the Commission or calculated directly or indirectly to benefit the Commission and may accept, acquire and exercise powers and rights conferred upon it by any such authority to do any of the things or carry on any of the operations herein mentioned outside of the Province of Ontario and may enter into any arrangement or agreement with any such authority; and the Commission may purchase or otherwise acquire on such terms as it may deem desirable shares in any company or corporation carrying on any business or operations similar to those hereinbefore in this section set forth, and hold, sell, mortgage, pledge or otherwise deal with the same.

Expendi-
tures
legalized.

3. Wherever in *The Hydro-Electric Railway Act, 1914*, or, in the agreement confirmed by section 8 of *The Hydro-Electric Act, 1920*, referred to in section 2 hereof, or in *The Hydro-Electric Railway Act, 1925*, or in any amendment or amendments thereof reference is made to expenditure by the Commission to cover the capital cost of extensions or improvements or additional works or equipment of any kind required for said railway such reference shall be deemed to include and to have always included expenditure by the Commission for any of the purposes mentioned in said section 2.

Commence-
ment of
Act.

4. This Act shall come into force on the day upon which it receives the Royal Assent.

APPENDIX II

TRANSMISSION LINE RECORDS

Corrected to October 31, 1929

including

Summaries of data respecting mileage of transmission lines built or acquired by the Hydro-Electric Power Commission. The sizes, materials, lengths and weights of conductors, and other particulars of the high voltage steel-tower transmission lines, the wood-pole transmission lines—excepting 4,000 volts or less—and the telephone lines.

TRANSMISSION LINE RECORDS—ALL SYSTEMS

The total mileage of lines built and acquired by the Commission up to October 31, 1929, for the various systems, excepting all lines operating at less than 4,000 volts, is indicated in the following table:

TOTAL MILEAGE OF TRANSMISSION LINES

System	Miles
Niagara system—220,000-volt, steel-supported transmission lines	*203.22
Niagara system—110,000-volt, steel-supported transmission lines	715.93
Niagara system—110,000-volt, wood-supported transmission lines	68.23
Eastern Ontario system—110,000-volt, steel-supported transmission lines	52.93
Eastern Ontario system—110,000-volt, wood-supported transmission lines	61.58
Thunder Bay system—110,000-volt, steel-supported transmission lines	81.89
Thunder Bay system—110,000-volt, wood-supported transmission lines	82.75
Thunder Bay system—12,000-volt, wood-supported transmission lines	1.45
Niagara system—90,000-volt, steel-supported transmission lines	78.50
Niagara system—60,000-volt, steel-supported transmission lines	54.07
Niagara system—60,000-volt, wood-supported transmission lines	17.12
Niagara system—46,000-volt, steel-supported transmission lines	50.52
Niagara system—30,000-volt, wood-supported transmission lines	21.77
Niagara system—26,400-volt, wood-supported transmission lines	525.02
Niagara system—13,200-volt, wood-supported transmission lines	444.60
Niagara system—12,000-volt, wood-supported transmission lines	178.03
Eastern Ontario system—Central Ontario district—(44,000-volt and less)	508.29
Georgian Bay system—(38,000-volt and less)	43.14
Georgian Bay system—	
Severn district—(22,000-volt)	175.88
Eugenia district—(22,000-volt)	263.07
Wasdells district—(22,000-volt)	82.95
Muskoka district—(38,000-volt and less)	26.47
Eastern Ontario system—	
St. Lawrence district—(44,000-volt)	119.92
Rideau district—(26,400-volt)	76.96
Madawaska system—(33,000-volt and less)	39.25
Nipissing system—(22,000-volt)	23.66
Total	3,997.20

NOTE—Of the above the Niagara system is operated at 25 cycles. The other systems are operated at 60 cycles.

*Second circuit completed to Oct. 31, 1929 = 112.02 miles.]

TRANSMISSION LINE RECORDS—ALL SYSTEMS

TOTAL MILEAGES AND WEIGHTS OF CONDUCTORS

Type of construction	Wire miles of conductor			Weight in pounds		
	Completed to Oct. 31, 1928	Completed Oct. 31, 1928, to Oct. 31, 1929	Under construction Oct. 31, 1929	Completed to Oct. 31, 1928	Completed Oct. 31, 1928, to Oct. 31, 1929	Under construction Oct. 31, 1929
High-voltage lines, 220,000 volts, Niagara system.....	609.66	336.06	.....	3,296,432	1,817,076	.....
High-voltage lines, 110,000 volts and less, Niagara system.....	4,349.82	709.26	166.20	13,303,033	2,885,960	219,850
High-voltage lines, 110,000 volts, Eastern Ontario system.....	.....	351.42	.....	.....	1,390,773	.....
High-voltage lines, 110,000 volts, Thunder Bay system.....	538.35	.....	205.02	1,344,406	.....	571,596
Wood-pole lines built and acquired by the Commission including telephone lines.....	13,474.41	611.48	124.45	11,239,585	378,227	165,286
High-voltage telephone lines, Niagara system.	237.00	195.00	.....	45,504	37,440	.....
High-voltage telephone lines, Niagara system.	3,362.35	.....	.....	944,044	.....	.....
High-voltage telephone lines, Thunder Bay system.....	201.10	.....	.....	71,770	.....	.....
High-voltage telephone lines, Eastern Ontario system .....	.....	227.86	.....	.....	79,358	.....
Totals.....	22,772.69	2,431.08	495.67	30,244,774	6,588,834	956,732

NOTE—This table does not include lines operated at less than 4,000 volts.

NIAGARA SYSTEM

TOTAL MILEAGE OF HIGH-VOLTAGE LINES

	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Total to Oct. 31, 1929
220,000-volt, steel-supported transmission lines.....	203.22	112.02	315.24

SIZE, MATERIAL, LENGTH AND

	Wire miles of conductors		
Size and material	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Completed to Oct. 31, 1929
795,000 c.m., a.c.s-r.....	609.66	336.06	945.72

EASTERN ONTARIO SYSTEM

TOTAL MILEAGE OF HIGH-VOLTAGE LINES

	Completed Oct. 31, 1928 to Oct. 31, 1929	Total to Oct. 31, 1929
110,000-volt, steel-supported transmission lines.....	52.93	52.93
110,000-volt, wood-supported transmission lines.....	61.58	61.58
Totals.....	114.51	114.51

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors		Weight in pounds	
	Completed Oct. 31, 1928 to Oct. 31, 1929	Total to Oct. 31, 1929	Completed Oct. 31, 1928 to Oct. 31, 1929	Total to Oct. 31, 1929
477,000 c.m., a.c.s-r.....	278.43	278.43	1,277,201	1,277,201
4/0 a.c.s-r. (211,600 c.m.).....	72.99	72.99	113,572	113,572
Totals.....	351.42	351.42	1,390,773	1,390,773

Note.—a.c.s-r = Aluminum conductor, steel-reinforced; weights includes steel.

220,000-VOLT TRANSMISSION LINES

TOTAL NUMBER OF STEEL TOWERS

	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Total to Oct. 31, 1929
220,000-volt steel towers.....	993	552	1,545

WEIGHT OF POWER CONDUCTORS

Weight in pounds			Miles of single-circuit lines		
Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Completed to Oct. 31, 1929	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Completed to Oct. 31, 1929
3,296,432	1,817,076	5,113,508	203.22	112.02	315.24

HIGH-VOLTAGE TRANSMISSION LINES

TOTAL NUMBER OF STEEL TOWERS AND WOOD POLES

	Completed Oct. 31, 1928 to Oct. 31, 1929	Completed to Oct. 31, 1929
110,000-volt, steel towers.....	299	299
110,000-volt, wood poles.....	842	842
Totals.....	1,141	1,141

WEIGHT OF POWER CONDUCTORS

Miles of single-circuit lines		Miles of double-circuit lines		Total miles single- and double-circuit lines to Oct. 31, 1929
Completed Oct. 31, 1928 to Oct. 31, 1929	Total to Oct. 31, 1929	Completed Oct. 31, 1928 to Oct. 31, 1929	Total to Oct. 31, 1929	
87.55 24.33	87.55 24.33	2.03 .	2.03 .	90.18 24.33
111.88	111.88	2.03	2.03	114.51

NIAGARA SYSTEM—

TOTAL MILEAGE OF HIGH-VOLTAGE LINES

	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Total to Oct. 31, 1929
	miles	miles	miles
110,000-volt steel-supported transmission lines	595.69	120.24	715.93
110,000-volt wood-supported transmission lines	66.98	1.25	68.23
90,000-volt steel-supported transmission lines	78.50	.....	78.50
60,000-volt steel supported transmission lines	54.07	.....	54.07
60,000-volt wood-supported transmission lines	12.60	4.52	17.12
30,000-volt and less, wood-supported transmission lines.....	21.77	.....	21.77
Totals	829.61	126.01	955.62

SIZE, MATERIAL, LENGTH AND

Size and material	Wire Miles of conductor				Weight in pounds			
	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Under construction Oct. 31, 1929		Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Under construction Oct. 31, 1929	
167,800 c.m., a.c.s-r.....	198.00	.....	156.00		242,946	.....	191,412	
266,800 c.m., a.c.s-r.....	308.43	.....	.....		558,566	.....	.....
312,000 c.m., a.c.s-r.....	598.62	.....	.....		1,547,432	.....	.....
336,400 c.m., a.c.s-r.....	571.14	.....	10.20		1,592,338	.....	28,438	
477,000 c.m., a.c.s-r.....	.....	46.80	.....		.....	157,950	.....
500,000 c.m., a.c.s-r.....	246.30	.....	.....		1,010,322	.....	.....
605,000 c.m., a.c.s-r.....	523.23	662.46	.....		2,154,660	2,728,010	.....
115,000 c.m., copper.....	22.47	.....	.....		41,996	.....	.....
190,000 c.m., copper.....	767.52	.....	.....		2,431,503	.....	.....
167,800 c.m., copper.....	616.86	.....	.....		1,679,709	.....	.....
211,600 c.m., copper.....	322.02	.....	.....		1,105,494	.....	.....
115,000 c.m., aluminum.....	0.57	.....	.....		327	.....	.....
211,600 c.m., aluminum.....	34.20	.....	.....		35,910	.....	.....
345,000 c.m., aluminum.....	79.50	.....	.....		130,141	.....	.....
500,000 c.m., aluminum.....	6.60	.....	.....		16,434	.....	.....
820,000 c.m., aluminum.....	36.06	.....	.....		108,180	.....	.....
300,000 c.m., l-c.a.c. copper..	7.98	.....	.....		386,875	.....	.....
350,000 c.m., l-c.a.c. copper..	8.04	.....	.....		228,900	.....	.....
500,000 c.m., l-c.a.c. copper..	2.28	.....	.....		31,300	.....	.....
Totals	4,349.82	709.26	166.20		13,303,033	2,885,960	219,850	

NOTE.—a.c.s-r=Aluminum conductors, steel-reinforced. Weights include steel.

l-c.a.c.=Lead-covered armoured cable.

N. 56 x 53 and N. 59 x 60 on 60 Kv. transmission line towers only, conductor removed=31.85 miles.

HIGH-VOLTAGE TRANSMISSION LINES

TOTAL NUMBER OF STEEL TOWERS AND WOOD POLES

	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Total to Oct. 31, 1929
110,000-volt steel towers.....	5,402	629	6,031
110,000-volt wood poles.....	822	24	846
90,000-volt steel towers.....	901		901
60,000-volt steel towers.....	769		769
60,000-volt wood poles.....	421	85	506
30,000-volt and less, wood poles.....	1,003		1,003
Totals.....	9,319	738	10,057

WEIGHT OF POWER CONDUCTORS

Miles of single-circuit lines				Miles of double-circuit lines				Miles of four-circuit lines and underground cable				Total miles one, two and four- circuit lines
Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Under construction Oct. 31, 1929		Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Under construction Oct. 31, 1929		Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Under construction Oct. 31, 1929		Completed to Oct. 31, 1929
66.00												66.00
38.31				32.25								70.56
23.90				87.82								111.72
				95.19								95.19
	15.60											15.60
0.62				40.74								41.36
0.98				81.70	110.41			2.52				195.61
7.49												7.49
4.74				125.55								130.29
				102.81								102.81
				53.67								53.67
0.19												0.19
				5.70								5.70
				13.25								13.25
				1.10								1.10
12.02												12.02
								0.48				0.48
								0.67				0.67
								0.38				0.38
154.25	15.60			639.78	110.41			4.05				924.00

THUNDER BAY SYSTEM—

MILEAGE OF HIGH-VOLTAGE LINES

	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Total to Oct. 31, 1929
	miles	miles	miles
110,000-volt, steel-supported transmission lines.....	81.89	.....	81.89
110,000-volt, wood-supported transmission lines.....	82.75	.....	82.75
12,000-volt, wood-supported transmission lines.....	1.45	.....	1.45
Totals.....	166.09	.....	165.09

SIZE, MATERIAL, LENGTH AND

	Wire Miles of conductors			Weight in pounds		
Size and material	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Under construction Oct. 31, 1929	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Under construction Oct. 31, 1929
336,400 c.m., a.c.s-r.....	71.13	.....	205.02	198,310	.....	571,596
4/0 a.c.s-r (211,600 c.m.)....	233.67	.....	.....	363,590	.....	.....
4/0 copper (211,600 c.m.)....	218.40	.....	.....	749,767	.....	.....
2/0 copper (133,079 c.m.)....	15.15	.....	.....	32,739	.....	.....
Totals.....	538.35	.....	205.02	1,344,406	.....	571,596

NOTE.—a.c.s-r—Aluminum conductor, steel-reinforced. Weights include steel.

HIGH-VOLTAGE TRANSMISSION LINES

TOTAL NUMBER OF STEEL TOWERS AND WOOD POLES

	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Total to Oct. 31, 1929
110,000-volt steel towers.....	533	.....	533
110,000-volt wood poles.....	1,342	.....	1,342
12,000-volt wood poles.....	59	.....	59
Totals.....	1,934	.....	1,934

WEIGHT OF POWER CONDUCTORS

Miles of single-circuit lines			Miles of double-circuit lines			Total miles single- and double-circuit line
Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Under construction Oct. 31, 1929	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Under construction Oct. 31, 1929	Completed to Oct. 31, 1929
15.31	68.34	4.20	.....	.....	19.51
77.89	77.89
72.80	72.80
5.05	5.05
171.05	68.34	4.20	.....	.....	175.25

NIAGARA SYSTEM—WOOD-POLE TELEPHONE LINES

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors		Weight in pounds		Miles of single-circuit lines	
	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929
No. 9 B. & S.G. copper...	1,132.61	.....	236,715	.....	107.13	.....
No. 10 B. & S.G. copper...	838.62	.....	139,210	.....	257.93	.....
No. 11 B. & S.G. copper...	139.86	.....	22,097	.....	69.93	.....
No. 8 weatherproof copper...	15.00	.....	5,235	.....	.....	.....
No. 4 copper-clad steel...	12.00	.....	7,440	.....	.....	.....
No. 8 copper-clad steel...	75.68	.....	18,541	.....	32.36	.....
No. 17 copper-clad steel...	10.88	.....	326	.....	5.44	.....
No. 14 copper-clad steel...	7.68	.....	468	.....	.....	.....
No. 19 p-i.l-c. cable.....	819.20	.....	112,082	.....	.....	.....
No. 22 p-i.l-c. cable.....	34.00	.....	296,208	.....	.....	.....
No. 12 B.W.G. galv. iron...	11.40	.....	1,881	.....	5.70	.....
No. 6 a.c.s-r.....	129.44	.....	24,852	.....	.....	.....
6 x .0661 steel, 1 x .0661 al.	132.00	.....	77,748	.....	66.00	.....
No. 12 weatherproof iron...	3.98	.....	1,241	.....	1.99	.....
Totals*.....	3,362.35	.....	944,044	.....	546.48	.....

NOTE.—B. & S. G. = Browne & Sharpe gauge.

a.c.s-r = Aluminum cable, steel-reinforced.

B.W.G. = Birmingham wire gauge.

p-i.l-c. cable = Paper-insulated, lead-covered cable.

FOR HIGH VOLTAGE TRANSMISSION LINES

WEIGHT OF CONDUCTORS

Miles of double-circuit lines		Miles of 4-circuit lines		Miles of paper-insulated lead-cover copper		Total mileage 1-, 2-, 4-, and mis- cellaneous circuits completed to Oct. 31, 1929
Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	
120.41	54.60	.....	.....	.....	282.14
80.69	338.62
.....	69.93
3.75	3.75
3.00	3.00
.....	1.37	.....	.....	.....	33.73
.....	5.44
1.92	1.92
.....	11.16	.....	11.16
.....	0.34	.....	0.34
.....	5.70
32.36	32.36
.....	66.00
.....	1.99
242.13	55.97	.....	11.50	.....	856.08

THUNDER BAY SYSTEM—WOOD-POLE TELEPHONE
SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors			Weight in pounds		
	Completed to Oct. 31, 1928	Completed Oct. 31, 1928, to Oct. 31, 1929	Under construction Oct. 31, 1929	Completed to Oct. 31, 1928	Completed Oct. 31, 1928, to Oct. 31, 1929	Under construction Oct. 31, 1929
3 x 12 galv. steel.....	13.24	.....	.....	6,554	.....	.....
3 x 13 galv. steel.....	161.04	.....	.....	60,390	.....	.....
No. 6 a.c.s-r.....	18.32	.....	.....	3,517	.....	.....
No. 10 copper-clad steel.....	8.50	.....	.....	1,309	.....	.....
Totals.....	201.10	.....	.....	71,770	.....	.....

NIAGARA SYSTEM—HIGH-VOLTAGE TELEPHONE LINES
TOTAL MILEAGE AND WEIGHT OF CONDUCTORS

Size and material—B. & S. gauge	Wire miles	Weight in pounds
No. 9 B. & S. G. copper.....	1,132.61	236,715
No. 10 B. & S. G. copper.....	838.62	139,210
No. 11 B. & S. G. copper.....	139.86	22,097
No. 8 weatherproof copper.....	15.00	5,235
No. 4 copper-clad steel.....	12.00	7,440
No. 8 copper-clad steel.....	75.68	18,541
No. 14 copper-clad steel.....	7.68	468
No. 17 copper-clad steel.....	10.88	326
No. 19 paper-insulated lead-covered cable.....	819.20	112,082
No. 22 paper-insulated lead-covered cable.....	34.00	296,208
No. 12 B.W.G. galvanized iron.....	11.40	1,881
No. 6 aluminum cable, steel-reinforced.....	129.44	24,852
6 x .0661 steel and 1 x .0661 aluminum.....	132.00	77,748
No. 12 weather-proof iron.....	3.98	1,241
Totals.....	3,362.35	944,044

NOTE.—a.c.s-r—Aluminum cable, steel-reinforced.

THUNDER BAY SYSTEM—HIGH-VOLTAGE TELEPHONE LINES
TOTAL MILEAGE AND WEIGHT OF CONDUCTORS

Size and material—B. & S. gauge	Wire miles of conductors	Weight in pounds
3 x 12 galv. steel.....	13.24	6,554
3 x 13 galv. steel.....	161.04	60,390
No. 6 a.c.s-r.....	18.32	3,517
No. 10 copper-clad steel.....	8.50	1,309
Totals.....	201.10	71,770

NOTE.—a.c.s-r.—Aluminum conductor, steel-reinforced.

LINE FOR HIGH-VOLTAGE TRANSMISSION LINES
WEIGHT OF CONDUCTORS

Miles of single-circuit lines			Total mileage of single lines completed to Oct. 31, 1929
Completed to Oct. 31, 1928	Completed Oct. 31, 1928, to Oct. 31, 1929	Under construction Oct. 31, 1929	
6.62			6.62
80.52	80.52
9.16	9.16
4.25	4.25
100.55	100.55

WOOD AND STEEL-POLE TRANSMISSION AND TELEPHONE LINES

(Excluding High-Voltage Lines)

TOTAL MILEAGE OF LINES AND NUMBER OF POLES

Lines	Miles completed		
	To Oct. 31, 1928	Oct. 31, 1928 to Oct. 31, 1929	Totals to Oct. 31, 1929
Low-tension lines completed.....	2,438.95	117.92	2,556.87
Low-tension lines under construction.....		26.45	27.45
Single-circuit lines completed.....	1,877.00	113.08	1,990.08
Double-circuit lines completed.....	522.01	4.84	526.85
Three-circuit lines completed.....	23.73	.....	23.73
Four-circuit lines completed.....	15.88	.....	15.88
Five-circuit lines completed.....	0.33	.....	0.33
Single-circuit telephone lines completed.....	2,083.10	121.60	2,204.70
Double-circuit telephone lines completed.....	51.42	.....	51.42
STEEL AND WOOD POLES			
Number of poles erected.....	98,451	2,608	101,059
Number of steel poles erected.....	376	.....	376
Number of poles under construction.....	.....	795	795

NIAGARA SYSTEM SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors			Weight in pounds		
	Completed to Oct. 31, 1928	Completed Oct. 31, 1928, to Oct. 31, 1929	Completed to Oct. 31, 1929	Completed to Oct. 31, 1928	Completed Oct. 31, 1928, to Oct. 31, 1929	Completed to Oct. 31, 1929
No. 6 a.c.s-r.	237.00	195.00	432.00	45,504	37,440	82,944
Totals.	237.00	195.00	432.00	45,504	37,440	82,944

EASTERN ONTARIO SYSTEM— SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors		Weight in pounds	
	Completed Oct. 31, 1928 to Oct. 31, 1929	Under construction to Oct. 31, 1929	Completed Oct. 31, 1928 to Oct. 31, 1929	Under construction to Oct. 31, 1929
3 x .0661 aluminum.	128.62	.....	40,258	.....
4 x .0661 steel.				
1 x .0661 aluminum.	99.24	.....	39,100	.....
6 x .0661 steel.				
Totals.	227.86	.....	79,358	.....

NIAGARA SYSTEM TELEPHONE LINES FOR 220,000-VOLT LINES TOTAL MILEAGE AND WEIGHT OF CONDUCTORS

Size and material—B. & S. gauge	Wire miles	Weight in pounds
No. 6 a.c.s-r.	432.00	82,994
Totals.	432.00	82,944

NOTE—a.c.s-r = aluminum conductor, steel-reinforced.

TELEPHONE LINES FOR 220,000-VOLT LINES
WEIGHT OF CONDUCTORS

Miles of single-circuit lines		Total mileage of single-circuit lines completed to Oct. 31, 1929
Completed to Oct. 31, 1928	Completed Oct. 31, 1928, to Oct. 31, 1929	
118.50	97.50	216.00
118.50	97.50	216.00

HIGH-VOLTAGE TELEPHONE LINES
WEIGHT OF CONDUCTORS

Miles of single-circuit lines		Total mileage of single-circuit lines completed to Oct. 31, 1929
Completed Oct. 31, 1928 to Oct. 31, 1929	Under construction to Oct. 31, 1929	
64.31	64.31
49.62	49.62
113.93	113.93

EASTERN ONTARIO SYSTEM—HIGH-VOLTAGE TELEPHONE LINES
TOTAL MILEAGE AND WEIGHT OF CONDUCTORS

Size and material—B. & S. gauge	Wire miles	Weight in pounds
3 x .0661 aluminum..... 4 x .0661 steel.....	128.62	40,258
1 x .0661 aluminum..... 6 x .0661 steel.....	99.24	39,100
Totals.....	227.86	79,358

NOTE—a.c.s.r = aluminu cable, steel-reinforced.

WOOD AND STEEL-POLE

SUMMARY—

GAUGE, LENGTH AND

Size and material of conductors	Wire miles of conductors			Weight in pounds			Miles of
	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Under construction Oct. 31, 1929	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Under construction Oct. 31, 1929	Completed to Oct. 31, 1928
500,000 c.m. aluminum.....	78.66			195,863			2.50
345,000 c.m. aluminum.....	215.19			352,266			1.51
336,400 c.m. aluminum.....	7.26			12,109			
300,000 c.m. aluminum.....	42.30			63,027			
173,000 c.m. aluminum.....	37.29			32,293			1.51
4/0 alum. (211,600 c.m.).....	771.27			813,130			183.89
3/0 alum. (167,800 c.m.).....	1,989.18			1,658,974			250.94
2/0 alum. (133,079 c.m.).....	183.60			122,093			32.68
1/0 alum. (105,534 c.m.).....	710.85			373,195			161.33
No. 2 alum (66,373 c.m.).....	342.63			113,067			106.91
477,000 c.m. a.c.s-r.....	103.80			350,325			34.60
605,000 c.m. a.c.s-r.....	2.10			8,377			0.70
336,400 c.m. a.c.s-r.....	140.68		36.75	364,333		102,459	42.36
125,000 c.m. a.c.s-r.....	233.34			214,672			77.78
4/0 a.c.s-r (211,600 c.m.).....	292.80	75.75		455,594	117,867		82.48
3/0 a.c.s-r (167,800 c.m.).....	148.02		42.90	181,619		52,638	27.04
2/0 a.c.s-r (133,079 c.m.).....	82.59	5.25		80,690	5,129		31.43
1/0 a.c.s-r (105,534 c.m.).....	699.69	75.27	2.40	546,680	58,409	1,862	230.57
No. 2 a.c.s-r (66,373 c.m.).....	1,109.79	77.16	0.60	557,752	37,654	292	323.88
No. 4 a.c.s-r (41,742 c.m.).....		57.00			17,442		
190,000 c.m. copper.....	131.52			416,655			19.82
173,000 c.m. copper.....	3.75			10,552			1.25
115,000 c.m. copper.....	56.85	17.10		106,252	31,960		12.15
4/0 copper (211,600 c.m.).....	209.55			719,316			0.63
3/0 copper (167,800 c.m.).....	3.36			9,149			
2/0 copper (133,079 c.m.).....	236.91			511,961			35.17
1/0 copper (105,534 c.m.).....	218.64			373,873			51.08
No. 1 copper (83,694 c.m.).....	9.00			12,258			3.00
No. 2 copper (66,373 c.m.).....	63.69			68,720			21.23
No. 3 copper (52,634 c.m.).....	18.42			15,749			4.80
No. 4 copper (41,742 c.m.).....	87.12	60.75		58,993	40,459		
No. 6 copper (26,250 c.m.).....	104.34			44,344			33.78
3 x 12 galv. steel (35,643 c.m.)....	36.39			18,013			12.13
1/4" galv. steel (48,223 c.m.)....	52.50			34,649			17.50
9/32" galv. steel (63,200 c.m.)....	85.05			71,782			28.35
7/16" galv. steel (153,200 c.m.).....	32.10			70,331			
5/16" galv. steel (83,200 c.m.)....	424.92			470,809			91.44
6 galv. iron (41,000 c.m.).....	130.38			80,325			43.46
Totals.....	9,095.53	368.28	82.65	9,589,790	308,920	157,251	1,967.90

NOTE.—a.c.s-r=aluminum cable, steel-reinforced; weights include steel.

TRANSMISSION LINES

(Excluding High-Voltage Lines)

WEIGHT OF CONDUCTORS

single-circuit lines		Miles of double-circuit lines		Miles of three-circuit lines		Miles of four-circuit lines		Total circuit miles of one, two, three, four circuit lines completed to Oct. 31, 1929
Completed Oct. 31, 1928 to Oct. 31, 1929	Under construction Oct. 31, 1929	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	
.....	11.86	.....	.....	.....	.....	.....	14.36
.....	35.11	.....	.....	.....	.....	.....	36.62
.....	1.21	.....	.....	.....	.....	.....	1.21
.....	4.70	.....	.....	.....	4.70
.....	5.46	.....	.....	.....	.....	.....	6.97
.....
.....	36.60	.....	.....	.....	.....	.....	220.49
.....	206.06	.....	.....	.....	.....	.....	457.00
.....	14.26	.....	.....	.....	.....	.....	46.94
.....	37.81	.....	.....	.....	.....	.....	199.14
.....	3.65	.....	.....	.....	.....	.....	110.56
.....
.....	34.60
.....	0.70
.....	12.25	0.60	.....	.....	.....	.....	.....	42.96
.....	77.78
.....
16.03	7.56	4.61	.....	.....	.....	.....	110.68
.....	14.30	11.15	.....	.....	.....	.....	.....	38.19
1.75	0.81	.....	.....	.....	.....	.....	33.99
25.09	0.80	1.03	.....	.....	.....	.....	.....	256.69
25.72	21.81	.....	0.10	0.81	.....	.....	372.22
19.00	19.00
.....
.....	12.01	.....	.....	.....	.....	.....	31.83
.....	1.25
5.24	3.40	0.23	.....	.....	.....	.....	21.02
.....
.....	2.85	.....	.....	.....	15.88	.....	19.36
.....	0.56	.....	.....	.....	.....	.....	0.56
.....	21.90	.....	.....	.....	.....	.....	57.07
.....	10.90	.....	.....	.....	.....	.....	61.98
.....	3.00
.....	21.23
.....	0.67	.....	.....	.....	.....	.....	5.47
20.25	14.52	.....	.....	.....	.....	.....	34.77
.....	0.50	.....	.....	.....	.....	.....	34.28
.....
.....	12.13
.....	17.50
.....	28.35
.....
.....	5.35	.....	.....	.....	.....	.....	5.35
.....	25.10	.....	.....	.....	.....	.....	116.54
.....	43.46
113.08	27.35	492.74	4.84	0.10	5.51	.....	15.88	2,599.95

This sheet is based on route and wire miles.

TELEPHONE

ERECTED ON WOOD-POLE LINES

GAUGE, LENGTH AND WEIGHT OF ALUMINUM,

Size and material	Wire miles of conductors				Weight in	
	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Under construction Oct. 31, 1929	Completed to Oct. 31, 1929	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929
No. 8 B. & S. G. c-c steel.....	181.16	.....	0.20	181.16	44,384	.....
No. 10 B. & S. G. c-c steel.....	1,014.18	.....	.....	1,014.18	156,183	.....
No. 17 B. & S. G. c-c steel.....	12.02	.....	.....	12.02	360	.....
No. 9 copper.....	220.32	24.54	.....	244.86	46,046	5,128
No. 10 copper.....	176.86	.....	.....	176.86	29,358	.....
No. 6 B. W. G. galv. iron....	25.98	.....	.....	25.98	14,886	.....
No. 8 B. W. G. galv. iron....	5.70	.....	.....	5.70	2,154	.....
No. 9 B. W. G. galv. iron....	1,735.42	178.54	.....	1,913.96	529,303	54,454
No. 10 B. W. G. galv. iron....	80.22	.....	.....	80.22	20,055	.....
No. 12 B. W. G. galv. iron....	86.72	.....	.....	86.72	14,308	.....
No. 6 a.c.s-r.....	621.32	23.40	41.60	644.72	119,293	4,492
3 x .0661 aluminum.....	}	16.72	.....	16.72	.....	5,233
4 x .0661 steel.....						
3 x 12 galv. steel.....	88.88	.....	.....	88.88	295,437	.....
3 x 13 galv. steel.....	121.62	.....	.....	121.62	307,941	.....
1/4' galv. steel.....	1.48	.....	.....	1.48	976	.....
19 p-i.l-c. cable.....	7.00	.....	.....	7.00	69,111	.....
Totals.....	4,378.88	243.20	41.80	4,622.08	1,649,795	69.307

Note.—For telephone lines generally on wood poles and serving 110,000-volt power lines see separate table.

p-i.l-c. cable = Paper insulated, lead covered cable.

c-c. steel = Copper-clad steel. a.c.s-r = Aluminum cable, steel-reinforced.

LINES

CARRYING POWER CONDUCTORS

COPPER-CLAD STEEL AND GALVANIZED IRON WIRE

pounds		Single-circuit mileage			Double-circuit mileage			Single and double-circuit totals completed to October 31, 1929
Under construction Oct. 31, 1929	Completed to Oct. 31, 1929	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Under construction Oct. 31, 1929	Completed to Oct. 31, 1928	Completed Oct. 31, 1928 to Oct. 31, 1929	Under construction Oct. 31, 1929	
48	44,384	90.58	.....	0.10	.....	.....	.....	90.58
.....	156,183	503.27	.....	.....	1.91	.....	.....	505.18
.....	360	6.01	.....	.....	.....	.....	.....	6.01
.....	51,174	110.16	12.27	.....	.....	.....	.....	122.43
.....	29,358	88.43	.....	.....	.....	.....	.....	88.43
.....	14,886	12.99	.....	.....	.....	.....	.....	12.99
.....	2,154	2.85	.....	.....	.....	.....	.....	2.85
.....	583,757	867.71	89.27	.....	.....	.....	.....	956.98
.....	20,055	40.11	.....	.....	.....	.....	.....	40.11
.....	14,308	43.36	.....	.....	.....	.....	.....	43.36
7,987	123,785	211.64	11.70	20.80	49.51	.....	.....	272.85
.....	5,233	.....	8.36	.....	.....	.....	.....	8.36
.....	295,437	44.44	.....	.....	.....	.....	.....	44.44
.....	307,941	60.81	.....	.....	.....	.....	.....	60.81
.....	976	0.74	.....	.....	.....	.....	.....	0.74
.....	69,111	3.50	.....	.....	.....	.....	.....	3.50
8,035	1,719,102	2,086.60	121.60	20.90	51.42	.....	.....	2,259.62

B. & S. G. = Browne & Sharpe gauge. B. W. G. = Birmingham wire gauge.

APPENDIX III

DISTRIBUTION LINES AND SYSTEMS

Summaries of Data respecting Rural Distribution Systems,
Distribution Feeders, Metering Stations, Distributing
Stations and Distribution Systems constructed by the
Hydro-Electric Power Commission

Below is shown in tabular and descriptive form the work carried on under the supervision of the Distribution section of the Electrical Engineering department during the year ended October 31, 1929.

This work includes the construction of rural distribution systems, the installation of feeders to supply urban municipalities and the construction of metering equipments.

Work in connection with distribution systems was done by the Commission for certain municipalities, private companies, etc., at the request and at the expense of the parties concerned.

SUMMARY OF CONSTRUCTION IN RURAL POWER DISTRICTS

System	At October 31, 1928		At October 31, 1929	
	Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
Niagara system.....	3,297.5	25,256	4,058.9	29,412
Georgian Bay system.....	154.4	1,337	242.1	1,855
Eastern Ontario System—				
Central Ontario division.....	196.2	2,208	288.8	2,671
St. Lawrence division.....	68.1	450	126.3	797
Rideau division.....			37.8	186
Ottawa system.....	70.9	469	77.5	516
Nipissing system.....	4.2	147	4.5	167
Total.....	3,791.	29,867	4,835.	35,604

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS

Rural power district	Property number	At October 31, 1928		At October 31, 1929	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
Acton.....	N5D1	1.8	7	1.8	7
Alvinston.....	N18D9	.....	.....	2.5	4
Amherstburg.....	N15D3	45.2	422	53.0	465
Aylmer.....	N11D2	67.4	390	81.0	458
Ayr.....	N12D4	8.3	37	9.7	46
Baden.....	N7D1	51.3	245	53.7	260
Beamsville.....	N1D4	91.3	597	105.0	724
Belle River.....	N15D2	32.9	268	36.5	295
Blenheim.....	N14D3	32.9	172	42.0	245
Bond Lake.....	N3D3	55.7	829	87.1	958
Bothwell.....	N14D10	21.3	77	30.0	99
Brampton.....	N13D2	36.7	128	47.5	156
Brant.....	N12D1	49.9	284	71.0	378
Brigden.....	N18D8	20.7	60	22.9	72
Burford.....	N12D2	11.9	91	15.7	122
Caledonia.....	N2D5	38.3	188	46.0	231
Chatham.....	N14D1	90.6	552	106.0	646
Chippawa.....	N1D7	11.1	105	12.2	113
Clinton.....	N8D11	21.2	145	45.1	196
Delaware.....	N4D3	83.3	461	90.9	497
Dorchester.....	N4D1	91.5	471	95.8	486
Dresden.....	N14D12	0.3	2	1.8	13
Drumbo.....	N12D5	20.2	146	24.5	177
Dundas.....	N2D1	67.8	437	69.1	494
Dunnville.....	N1D9	1.2	8	1.2	12
Dutton.....	N11D3	9.5	65	25.2	99
Elmira.....	N7D3	4.5	31	5.2	35
Elora.....	N5D4	9.5	110	10.0	132
Essex.....	N15D7	53.0	257	61.5	317
Exeter.....	N4D6	44.0	412	54.7	452
Forest.....	N18D6	5.5	15	9.7	30
Galt.....	N6D2	18.8	191	22.7	200
Georgetown.....	N5D2	23.2	134	32.0	157
Goderich.....	N8D2	3.2	38	4.2	37
Grantham.....	N1D2	41.7	419	48.2	468
Guelph.....	N5D3	28.0	92	56.5	222
Haldimand.....	N2D8	10.2	68	11.7	78
Harriston.....	N8D5	.....	.....	2.2	7
Harrow.....	N15D4	37.6	329	48.0	429
Ingersoll.....	N10D3	71.6	219	114.9	420
Jordan.....	N1D3	21.4	194	24.5	228
Keswick.....	N3D5	17.5	614	21.0	668
Kingsville.....	N15D5	82.7	940	95.6	1,048
Listowel.....	N8D8	23.4	143	27.2	151
London.....	N4D2	130.9	1,437	150.5	1,612
Lucan.....	N4D5	27.0	95	27.3	100
Lynden.....	N2D2	37.6	180	41.0	200
Markham.....	N3D1	42.0	390	76.0	515
Merlin.....	N14D15	.....	.....	37.6	156
Milton.....	N13D3	28.2	180	34.0	214

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Continued

Rural power district	Property number	At October 31, 1928		At October 31, 1929	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
Milverton.....	N8D9	13.2	69	15.0	73
Mitchell.....	N8D7	24.6	159	31.5	191
Newmarket.....	N3D4	11.2	146	21.0	206
Niagara.....	N1D1	39.7	212	41.0	239
Norwich.....	N10D1	73.8	338	76.9	364
Oil Springs.....	N18D3	12.8	84	12.8	86
Palmerston.....	N8D6	0.2	9	0.2	10
Petrolia.....	N18D5	3.5	17	3.7	22
Preston.....	N6D1	88.6	678	110.5	701
Ridgetown.....	N14D2	69.0	479	88.8	580
St. Marys.....	N9D1	56.7	197	64.7	219
St. Jacobs.....	N7D2	24.3	205	30.5	220
St. Thomas.....	N11D1	95.1	856	116.5	911
Saltfleet.....	N17D1	73.9	815	77.1	883
Sandwich.....	N15D1	91.4	1,715	109.6	1,921
Sarnia.....	N18D4	69.6	875	78.5	974
Scarborough.....	N3D2	33.7	250	47.2	348
Seaforth.....	N8D10	4.2	100	6.0	113
Simcoe.....	N12D6	29.1	168	29.5	179
Stamford.....	N1D6	9.3	211	10.6	282
Stratford.....	N8D4	29.9	192	30.5	202
Strathroy.....	N4D4	9.2	50	11.7	69
Streetsville.....	N13D1	55.6	233	80.0	281
Tavistock.....	N8D1	39.6	175	56.0	220
Thamesville.....	N14D11	20.0	117	22.1	132
Tilbury.....	N14D14	36.4	149	24.4 (a)	114
Tillsonburg.....	N10D4	85.5	430	90.9	467
Wallaceburg.....	N14D13	50.9	357	50.9	384
Walsingham.....	N12D7	8.4	73	17.0	112
Walton.....	N8D3	22.2	148	22.5	164
Waterdown.....	N2D3	24.5	217	27.2	267
Waterford.....	N12D3	15.5	61	32.6	129
Watford.....	N18D7	.....	.....	1.3	0
Welland.....	N1D5	122.4	1,642	166.0	1,955
Woodbridge.....	N16D1	126.5	662	147.8	718
Woodstock.....	N10D2	103.2	492	113.0	547

(a) 26.5 M. transferred to Merlin R.P.D.

GEORGIAN BAY SYSTEM

Eugenia Division					
Chatsworth.....	E3D1	.....	.....	0	19
Flesherton.....	E1D1	1.6	17	1.6	17
Lucknow.....	E24D1	.....	1	0.1	2
Markdale.....	E1D2	1.0	2	1.0	2
Meaford.....	E14D1	0.8	2	0.8	2

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Continued

TOWNSHIP DISTRICTS—Continued					
Rural power district	Property number	At October 31, 1928		At October 31, 1929	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
GEORGIAN BAY SYSTEM					
Neustadt.....	E8D1	0.3	1	0.3	1
Orangeville.....	E12D1	8.7	27	8.7	27
Ripley.....	E24D2	.....	2	0	2
Shelburne.....	E10D1	2.4	10	2.4	10
Tara.....	E15D1	18.7	28	21.5	86
Walkerton Quarries.....	E25D1	1.6	5	1.6	5
Wroxeter.....	E23D1	.....	.....	14.3	103
Wasdells Division					
Cannington No. 1.....	W3D1	3.8	21	3.8	22
Cannington No. 2.....	W3D2	4.1	19	4.2	20
Georgina.....	W2D2	9.5	80	9.5	81
Mariposa.....	W9D1	22.3	144	30.4	182
Port Perry.....	W7D2	1.9	42	24.6	84
Sparrow Lake.....	W1D1	16.1	137	18.6	132
Uxbridge.....	W7D1	1.0	6	19.2	68
Seyn Division					
Alliston.....	S32D1	.....	.....	6.5	0
Barrie.....	S4D1	9.1	97	13.3	114
Beeton.....	S33D1	0.3	1	0.3	1
Bradford.....	S37D1	.....	.....	0.7	3
Buckskin.....	S24D1	0.9	13	0.9	13
Elmvale.....	S7D1	.....	22	0	22
Innisfil.....	S31D1	14.6	129	21.6	214
Nottawasaga.....	S5D1	7.8	82	7.8	85
Stayner.....	S10D1	13.1	349	13.4	396
Muskoka Division					
Beaumaris.....	M7D1	.....	.....	14.8	122
EASTERN ONTARIO SYSTEM—CENTRAL ONTARIO DIVISION					
Belleville.....	C38D1	15.4	320	42.0	357
Bowmanville.....	C23D1	0.5	3	1.6	7
Campbellford.....	C11D1	11.0	32	15.4	51
Coburg.....	C13D1	47.2	173	57.0	263
Colborne.....	C7D1	10.0	72	10.0	72
Kingston.....	C44D1	15.2	83	26.8	94
Lakefield.....	C18D1	.....	1	0	1
Napanee.....	C43D1	1.5	4	9.75	11
Newcastle.....	C22D1	5.0	27	13.5	28
Norwood.....	C31D1	.....	.....	3.5	30
Oshawa.....	C24D1	44.6	575	53.8	643
Peterborough.....	C20D1	26.0	740	30.0	804
Pickering.....	C24D2	7.8	117	12.3	141
Port Hope.....	C16D1	10.0	32	10.0	34
Stirling.....	C35D1	.....	.....	1.2	3
Trenton.....	C3D1	1.5	26	1.5	26
Wellington.....	C45D1	0.5	4	0.5	8

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Continued

Rural power district	Property number	At October 31, 1928		At October 31, 1929	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
EASTERN ONTARIO SYSTEM—ST. LAWRENCE DIVISION					
Alexandria.....	L15D1	.....	.....	2.1	0
Apple Hill.....	L14D1	10.5	83	10.5	83
Brockville.....	L3D1	7.2	45	37.6	236
Chesterville.....	L5D1	22.4	136	33.6	235
Martintown.....	L13D1	11.5	95	11.5	98
Maxville.....	L14D2	.....	2	0	2
Prescott.....	L2D1	14.6	81	25.4	125
Williamsburg.....	L7D1	1.9	8	5.6	18
EASTERN ONTARIO SYSTEM—RIDEAU DIVISION					
Smiths Falls.....	H3D1	.....	.....	37.8	186
OTTAWA SYSTEM					
Nepean.....	T1D1	70.9	469	77.5	516
NIPISSING SYSTEM					
North Bay.....	Z4D1	4.2	147	4.5	167

DISTRIBUTION FEEDER CONSTRUCTION

During the year ending October 31, 1929, the following work was carried on in connection with distribution feeder lines.

N 364x67—East York Township Limits to Markham Junction.**N 333x2—Scarborough Township Distributing Station to Agincourt.**

Due to the erection of a distributing station at Scarborough, certain rearrangements were made necessary. The line N 364x67 has now been wiped out of capital. From East York township limits to the corner of Kennedy road and St. Clair avenue, the line has been in part dismantled and the remainder sold to Scarborough Township hydro-electric system. From the corner of Kennedy road and St. Clair avenue to Agincourt the line has been redesignated as N 333x2 and the existing No. 6 copper conductor changed to No. 2 steel-reinforced aluminum. From Agincourt East to Markham junction, the capital has been transferred to Scarborough rural power district.

A new 4000/2300-volt three-phase line was built from Scarborough Township distributing station to the corner of Kennedy road and St. Clair avenue to connect up with the existing line N 364x67.

The new line N 333x2 is now 5.56 miles in length and was placed in service March 11, 1929.

N 1305x6—Milton Brick Company to Streetsville Junction.

The capital in this line was transferred to Streetsville Rural Power District on March 20, 1929.

N 1455x26—Fletcher Distributing Station to Merlin.

Due to the construction of a distributing station at Merlin and the extension of the 26,400-volt line from Fletcher to Merlin, certain arrangements were made necessary. The poles of the existing line were used to carry the 26,400-volt circuit and the 4000 2/300-volt conductors were lowered on the same pole line and now constitute a new feeder N 1456x27 to supply the Denison Tile Company in Fletcher from the Merlin distributing station. The existing steel neutral was replaced by a No. 4 steel-reinforced aluminum cable. It was placed in service on December 9, 1928.

DISTRIBUTION FEEDER CONSTRUCTION—Continued**N 1509x21—Sandwich to La Salle.**

A 26,000-volt line was constructed to serve La Salle. Part of the capital invested in this feeder was transferred to Sandwich rural power district and the remainder of the line was dismantled.

N 1817x28—Sarnia to Courtright.

Two additional conductors were strung from Corunna to Courtright making this line three-phase throughout. In service February 27, 1929.

C 22x2202—Newcastle Distributing Station to Orono.

This line was single-phase. Two additional conductors were strung in order to give three-phase service. In service January 27, 1929.

C 22x2201—Newcastle Distributing Station to Newcastle.

This line was single-phase. Two additional conductors were strung in order to give three-phase service. In service January 27, 1929.

C 24x2402—Oshawa to Whitby.

Whitby is now fed by a 44,000-volt line. The capital in the above 4000/2300-volt line was transferred to Oshawa rural power district on February 24, 1929.

E 24x2402—Holyrood Distributing Station to Lucknow.

The conductors on this line were changed from No. 2 steel-reinforced aluminum to No. 3/0 steel-reinforced aluminum. In service April 29, 1929.

L 19x1901—Lyn Distributing Station to Athens.

A new 8000/4600-volt line was constructed to supply the village of Athens from Lyn distributing station. This line is 14 miles long and was placed in service December 21, 1928.

Bala District

On April 28, 1929, the distribution system of the Bala Electric Light Company was purchased by the Hydro-Electric Power Commission of Ontario.

This purchase included the following properties which for convenience are here listed as "Distribution Feeders."

G.B. 1301—Bala Distribution System.**G.B. 1302—Port Carling Distribution System****G.B. 1303—MacTier Distribution System.****G.B. 1304—Medora Distribution System.****G.B. 13 x 1362—Bala Generating Station to Butterfly Junction.**

This line carries a 3-phase, 6,600-volt circuit and a 3-phase, 13,200-volt circuit and is 5.70 miles in length.

G.B. 1362 x 32—Butterfly Junction to Port Carling Station

This line is a 3-phase, 6,600-volt and is 3.9 miles in length.

G.B. 1362 x 33—Butterfly Junction to MacTier Station.

This line is 3-phase, 13,200-volt and is 7.1 miles in length.

METERING STATIONS CONSTRUCTED

Metering station	Property number	Date work was completed	Measuring power for
NIAGARA SYSTEM			
Chatham R.P.D.	N14D31	Dec. 1, 1928	Chatham R.P.D. (Part).
<i>a</i> Courtright.....	N1858	Mar. 20, 1929	Courtright.
<i>b</i> Dominion Sash.....	N1343	Oct. 26, 1929	Dominion Sash.
Jordan R.P.D.	N1D33	Oct. 25, 1929	Jordan R.P.D. (Part).
Princeton.....	N1243	Sept. 24, 1929	Princeton.
Streetsville Creamery.....	N1348	April 17, 1929	Streetsville Creamery.
Wyoming.....	N1844	Dec. 18, 1928	Wyoming.

a Changed from single-phase to three-phase.

b Three 10 kv-a. transformers replaced by three 50 kv-a. transformers.

GEORGIAN BAY SYSTEM

Uxbridge R.P.D.	W7D31	Feb. 4, 1929	Uxbridge R.P.D. (Part).
Wroxeter R.P.D.	E23D31	Feb. 12, 1929	Wroxeter R.P.D.

EASTERN ONTARIO SYSTEM—ST. LAWRENCE DIVISION

Athens.....	L1931	Feb. 5, 1929	Athens.
Chesterville R.P.D.	L5D31	Feb. 12, 1929	Chesterville R.P.D. (Crysler Line).
Chesterville R.P.D.	L5D31	Jan. 25, 1929	Chesterville R.P.D. (Newington Line).
<i>a</i> Prescott R.P.D.	L2D31	Mar. 16, 1929	Prescott R.P.D.
Williamsburg R.P.D.	L7D31	Dec. 21, 1928	Williamsburg R.P.D. (Part).

a Three 50 kv-a. 2200/2200-volt transformers added.

WORK DONE FOR MUNICIPALITIES AND OUTSIDE PARTIES

Municipality	Date work was completed	Nature of work
Athens.....	Feb. 13, 1929	Street lighting and distribution system.
Auburn (Walton R.P.D.).....	Dec. 7, 1928	Street lighting.
Crysler (Chesterville R.P.D.).....	Feb. 12, 1929	Street lighting.
G. C. Edwards and H. S. Southam...	July 7, 1929	Construction of line to summer cottages.
Ethel (Walton R.P.D.).....	Dec. 15, 1928	Street lighting.
Gravenhurst.....	June 6, 1929	Street lighting.
Innerkip (Woodstock R.P.D.).....	June 15, 1929	10 additional street lights.
Lady Kingsmill.....	June 29, 1929	Construction of overhead line and laying of submarine cable to summer cottage.
Londesborough (Walton R.P.D.).....	Dec. 8, 1928	Street lighting.
Severn Bridge.....	July 22, 1929	Addition of street light.
Southampton.....	April 2, 1929	Valuation of distribution system.
Col. R. G. Stewart.....	June 29, 1929	Construction of line to summer cottage.
Walkerton.....	Mar. 25, 1929	Valuation of distribution system.

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Credit or Charge Account.....	178
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Statements..... C, 358; D, 376; E, 392	

PORTION OF
NORTHWESTERN
ONTARIO

Scale: 100 miles = 1 inch

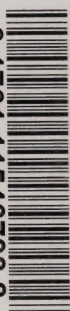
HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

MAP OF PORTION OF THE
PROVINCE OF ONTARIO
SHOWING
TRANSMISSION LINES AND STATIONS

Scale: miles or 15-20 miles = 1 inch

LEGEND

- High-Voltage Lines
- Low-Voltage Lines
- Distribution Lines
- Existing Hydro-Electric Generating Stations
- Proposed Hydro-Electric Generating Stations
- Other Plants Supplying Power to H.E.C.
- High-Voltage Stations
- Municipalities
- Discharging Stations
- Existing Regulating Dams
- Proposed Regulating Dams



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